UNIVERSUM VR-27013A

MODEL

SERVICE MANUAL

FILE NO.

SANYO

SERVICE MANUAL

Video Cassette Recorder

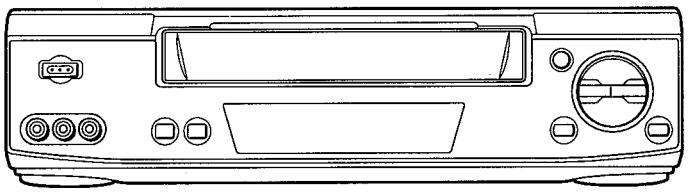
VHR-H770EV
(Product Code : 143 181 41)
(Europe)

VHR-H800EV
(Product Code : 143 181 08)
(Europe)

VHR-H780IR
(Product Code : 143 181 29)
(Ireland)

VHR-H760G
(Product Code : 143 181 35)
(Germany)

VHR-H780G
(Product Code : 143 181 36)
(Europe)



(VHR-H800EV)

VHS
PAL

CONTENTS

1. DISASSEMBLY 6
2. ELECTRICAL ADJUSTMENT 10
3. TEST POINTS FOR TAPE PATH ADJUSTMENT 14
4. PARTS LIST
   - CABINET & CHASSIS PARTS 15
   - MECHANISM PARTS 16
   - ELECTRICAL PARTS 18
   - ACCESSORIES 28
   - PACKING MATERIALS 28

CIRCUIT DIAGRAMS (Refer to the separate volume)

Please see other materials with Reference number given in table below.

Materials	Model No.	Reference No.
Mechanism Manual	VC Mechanism	MM531683
	VC2K Mechanism	MS5310134

PRODUCT SAFETY NOTICE

The components designated by a symbol (⚠) in this schematic diagram designates components whose value are of special significance to product safety. Should any component designated by a symbol need to be replaced, use only the part designated in the parts List. Do not deviate from the resistance, wattage, and voltage ratings shown.

NOTE: 1. Parts order must contain model number, part number, and description.
2. Substitute parts may be supplied as the service parts.
3. N.S.P. : Not available as service parts.

Design and specifications are subject to change without notice.

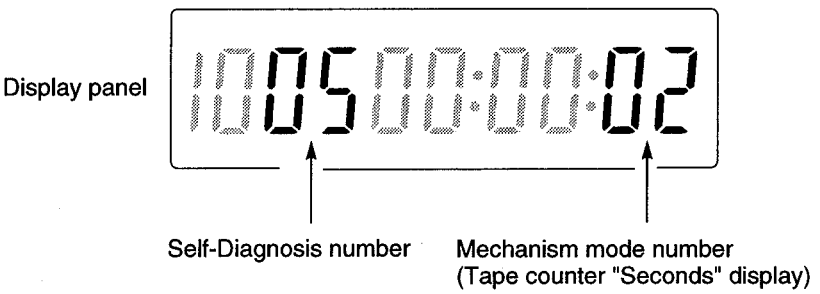
SELF-DIAGNOSIS DISPLAY

Mechanism Mode Display / Head Output Drop Warning Display

This unit displays the diagnosis contents of abnormalities and the mechanism mode on its display panel in 2-digit numbers.
When the head playback output has dropped, the "L" sign will be blinked.
These display shows the outline of the problems. Use it as a reference when servicing the unit.

1. Self-Diagnosis Contents and Mechanism Mode Display

- When the STOP button on the remote control is pressed for about 10 seconds continuously, the self-diagnosis number will be displayed on the display panel and number indicating the failed mechanism mode (changed mode when being shifted) on the tape counter "seconds" display for 10 seconds each.
- During self-diagnosis display, displays other than the diagnosis number/mechanism mode number will be turned off and when displays end, the normal display will be returned automatically.
- Refer to "Self-Diagnosis Contents" for the self-diagnosis numbers and the "Mechanism Mode Display Contents" for the mechanism mode numbers.
- When the "0" button on the remote control unit is pressed during display, and clearing the self-diagnosis display and mechanism mode display.



Self-Diagnosis Contents

No.	Problem	Main Possible Cause	Mechanism Operations and State After Occurrence
00	There is no abnormality in the mechanism.		
01	The cylinder motor does not rotate.	• The cylinder motor is faulty. • The control of the cylinder motor is faulty. • The tape winds around the cylinder.	Shifts to the CASSETTE OUT mode, and the power goes off.
02	The take-up reel or supply reel does not rotate.	• The take-up reel or supply reel is caught. • The reel belt is faulty. • The reel torque has decreased.	SYSTEM DOWN
03	The capstan motor does not rotate.	• The capstan motor is faulty. • The control of the capstan motor is faulty.	SYSTEM DOWN
04	The tape cannot be loaded with the cassette inserted. (But unloading can be performed.)	• Error in the operations of the tape loading mechanism. • Foreign particles in the tape loading mechanism. • The tape end sensor is faulty. • The reel brake of the tape cassette has not been released.	Unloads, shifts to the UNLOADING mode, and the power goes off.
05	Tape loading and unloading cannot be performed with the cassette inserted.	• The tape guide is caught. • The loading motor is faulty. • The control of the loading motor is faulty.	The power is forcibly turned off with the mechanism at its current position.

No.	Problem	Main Possible Cause	Mechanism Operations and State After Occurrence
06	Front unloading cannot be performed when ejecting the cassette. (Front loading can be performed.)	• The cassette drive mechanism is faulty. • The front door is caught.	Front loads and shifts to the STOP or INITIAL mode. • When the power switch is turned on before eject operations: Shifts to the STOP mode. • When the power switch is turned off before eject operations: Shifts to the INITIAL mode and the power goes off.
07	Front loading and front unloading cannot be performed when ejecting the cassette.	• The tape cassette is caught in the cassette drive mechanism. • The main cam and front rack gear of the front loading mechanism have not engaged properly. • The gears of the front loading drive mechanism have not engaged properly.	The power is forcibly turned off with the mechanism at its current position.
08	The mechanism becomes 1 (REVIEW) while moving from 2 (IDLER), 3 (STILL), 4 (BRAKE), and to 5 (STOP).	• The mechanism mode switch contact is faulty.	The power is forcibly turned off with the mechanism at its current position.
09	The mechanism becomes 7 (INITIAL) while moving from 1 (REVIEW), 2 (IDLER), 3 (STILL), 4 (BRAKE), and to 5 (STOP).	• The mechanism mode switch contact is faulty.	Carries out tape take-up operations, shifts to the STANDBY mode, and the power goes off.
10	The capstan motor does not rotate and cassette tape eject when cassette tape insert.	• The capstan motor is faulty. • The control of the capstan motor is faulty.	Shifts to the EJECT mode. Protect cassette tape.
11	The cylinder motor does not rotate and cassette tape eject when cassette tape insert.	• The cylinder motor is faulty. • The control of the cylinder motor is faulty.	Shifts to the EJECT mode. Protect cassette tape.
12	The supply reel does not rotate and cassette tape eject when tape unloading.	• The supply reel is caught. • The reel belt is faulty. • The reel torque has decreased.	Shifts to the EJECT mode. Protect cassette tape.

Note: For details of mechanism operations corresponding to the mechanism positions of the self-diagnosis numbers 08 and 09 above, refer to the separate volume on the VC mechanism manual. These manual reference numbers are shown in the cover.

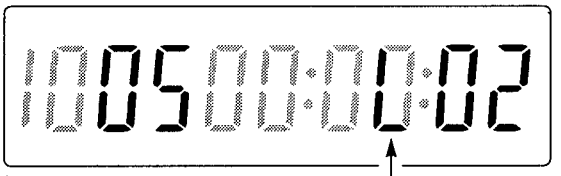
Mechanism Mode Display Contents

Mode No.	Mechanism Mode	Mode No.	Mechanism Mode	Mode No.	Mechanism Mode
00	CASSETTE OUT	07	SLOW	14	FAST FORWARD
01	STANDBY	08	PLAY	15	REWIND
02	STOP	09	REC	16	VIDEO INSERT
03	STILL	10	AUDIO DUBBING	17	VIDEO INSERT-PAUSE
04	REC-PAUSE	11	X2 SPEED PLAY	18	AUDIO/VIDEO INSERT
05	AUDIO DUBBING-PAUSE	12	CUE	19	REVERSE X2 SPEED PLAY
06	FRAME ADVANCE	13	REVIEW	99	OTHERS

2. Head Output Drop Warning Display

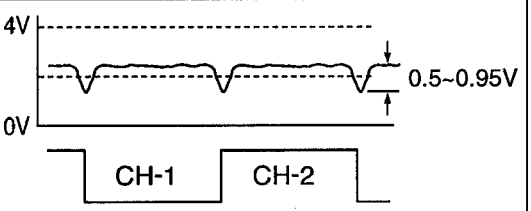
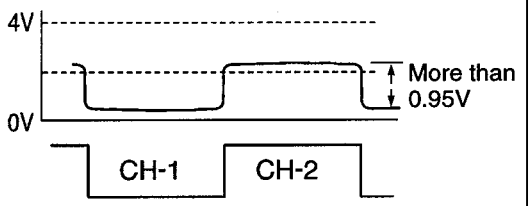
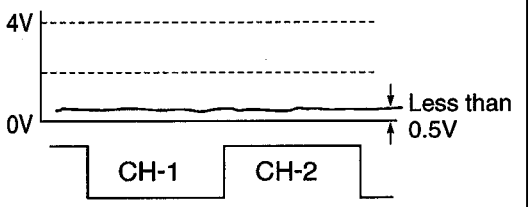
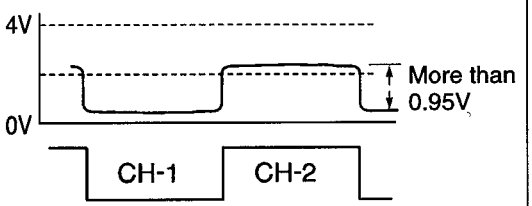
- When the STOP button on the remote control is pressed for 10 seconds continuously 10 seconds after play starts, "L" will be displayed blinking at the minutes position on the tape counter when the head output is lower than the specified value to indicate an abnormality.
- The cause of the abnormality may be due to drop in the playback output caused by drop in the efficiency of the cassette used or head clogging. Refer to "Head Playback Output Voltage Check" as a means to judge the abnormality.

Display panel



Head output drop warning display (Tape counter of "Minutes" position)

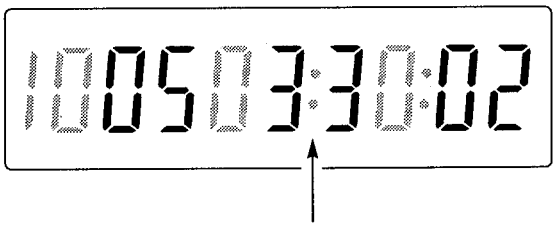
Head playback output voltage check

Cassette Used	Warning Display	Envelope Detection Output Voltage	Main Cause
Cassette with normal playback output	–	Envelope detection output (C3016: see Fig. 2-1-1) Switching pulse (TP183: see Fig. 2-1-1) 	When the output voltage difference of the two channels is 0.5 to 0.95V • The video heads of both are normal
Recorded cassette (with tabs)	"L" blinking	Envelope detection output (C3016: see Fig. 2-1-1) Switching pulse (TP183: see Fig. 2-1-1) 	When the output voltage difference of the two channels is more than 0.95V • Tracking adjustment has not been performed accurately • One video head is clogged • One video head has worn out
	"L" blinking	Envelope detection output (C3016: see Fig. 2-1-1) Switching pulse (TP183: see Fig. 2-1-1) 	When the average outputvoltage of the two channels is less than 0.5V • Tracking adjustment has not been performed accurately • Both video heads are clogged • Both video heads have worn out
Rental cassette (without tabs)	"L" blinking	Envelope detection output (C3016: see Fig. 2-1-1) Switching pulse (TP183: see Fig. 2-1-1) 	When the output voltage difference of the two channels is more than 0.95V • Tracking adjustment has not been performed accurately • One video head is clogged • One video head has worn out
	• Some rental cassettes may have extremely low video playback outputs even when both video heads are normal. As the average output voltage of the two heads may be less than 0.5V for some, no warning displays will be shown.		

3. Cylinder rotation accumulated time display

- Press the STOP button on the remote control for approximately 10 seconds and the cylinder rotation accumulated time excluding the cassette out and standby operation time will be displayed on the "Hours" and "Minutes" display in units of 100 hours. ("33" will be displayed for 10 seconds for 3,200 to 3,299 hours.)
- To erase the cylinder rotation accumulated time display, press the RESET button on the remote control during the accumulated time display.

Display panel



Cylinder rotation accumulated display (Tape counter "Hours" and "Minutes" display)

1. DISASSEMBLY

1-1. REMOVAL OF CABINET, MECHANISM UNIT, AND MAIN BOARD

REMOVING THE CABINET PARTS (Fig. 1-1-1)

1. Remove the cabinet by removing the four screws (1).
2. Remove the front panel by removing the locks of the clamps (A) using a screwdriver, etc. and slightly rotating the bottom part in the direction of the arrow.

Notes: • Electrical adjustments for the this model can be performed with only the cabinet removed.

REMOVING THE MECHANISM MAIN UNIT AND THE CP-1 PWB ASSEMBLY (Fig. 1-1-2 and 1-1-3)

After removing the cabinet parts, remove the mechanism unit and the CP-1 PWB assembly connected as follows.

1. Remove the five screws (2) as shown in Fig. 1-1-2.
2. Remove the two screws (3) at the CP-1 board, and then disconnect the bottom cover.
3. Remove the two screws (4) and two screws (5) of the mechanism unit. The two screws (5) of the cassette tray can be removed easily by pushing the lid opener lever in the arrow direction to remove the lock as shown in the enlarge view.
4. Lift up the whole mechanism unit and main board (CP-1 PWB assembly), and as shown in Fig. 1-1-3, so that they can be removed from the chassis.

M-SR2LN/E-1

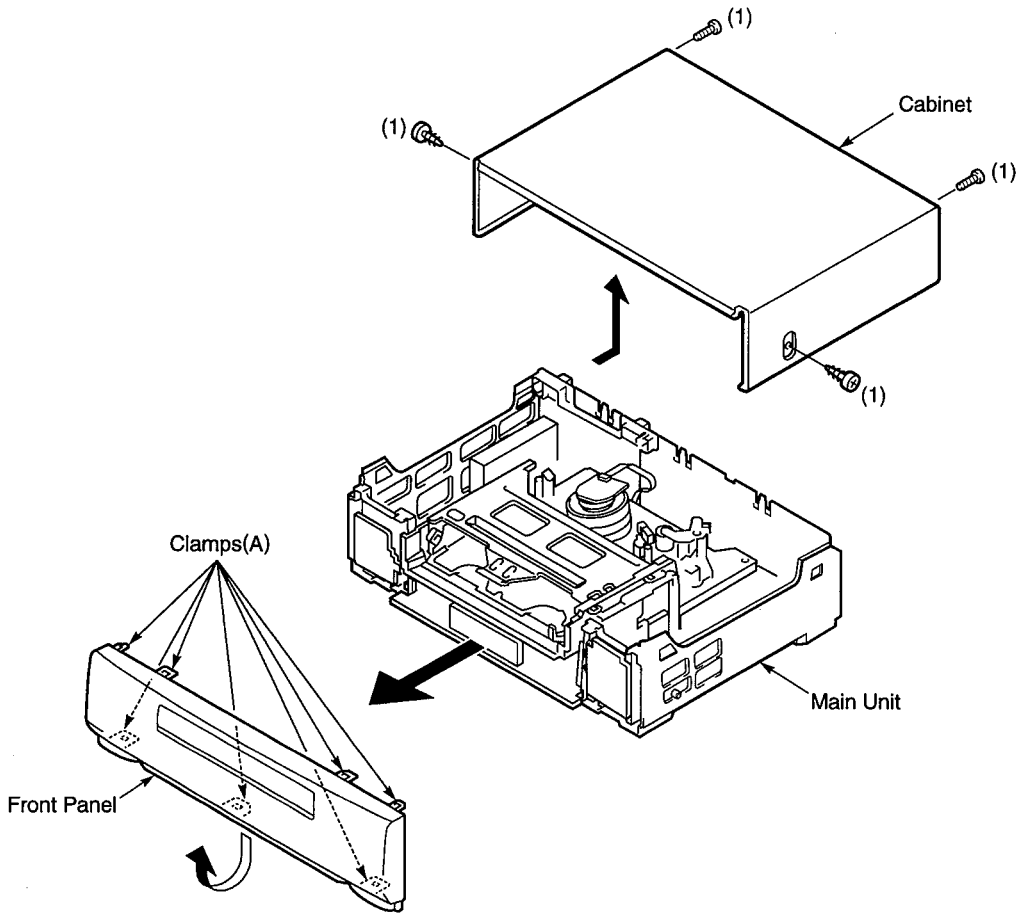


Fig. 1-1-1

M-SR2LN/E-2

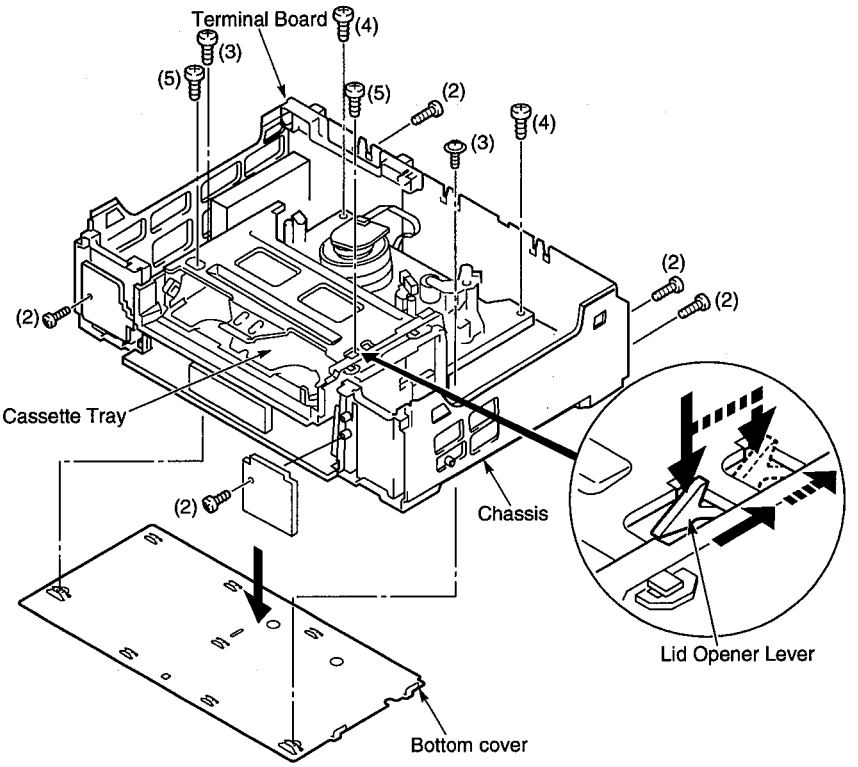


Fig. 1-1-2

M-SR2LN/E-3

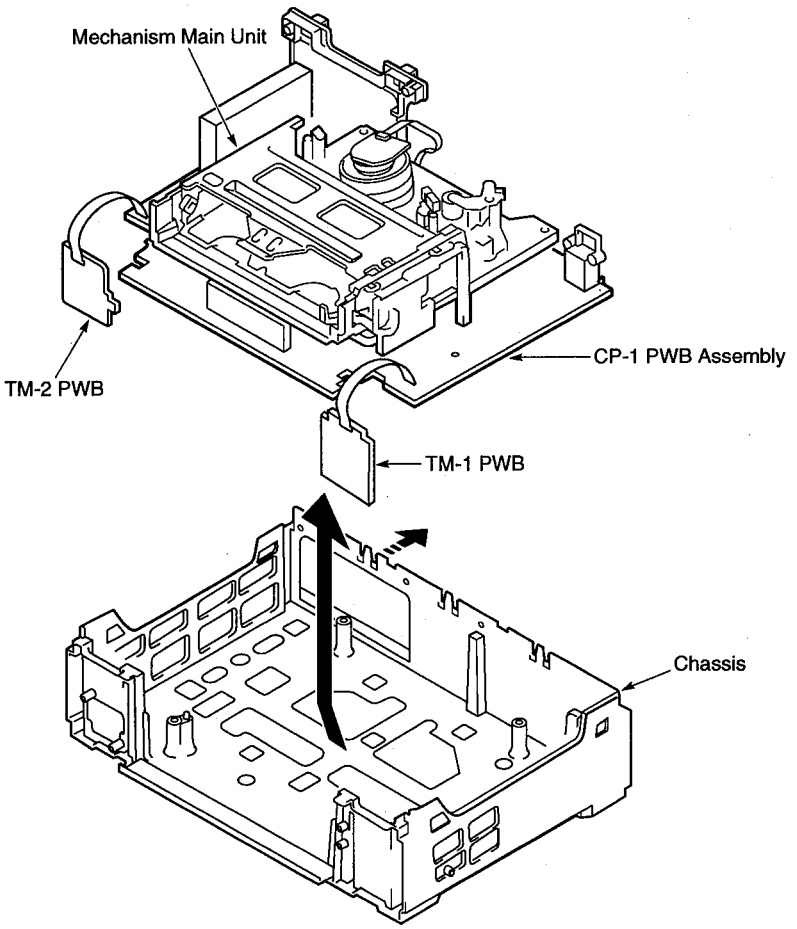


Fig. 1-1-3

1-2. TEMPORARILY SETTING UP AND CONNECTING CP-1 PWB ASSEMBLY

The following is an example of how to place and connect the main board without a jig, when repairing the CP-1 PWB assembly.

1. Place the mechanism unit and main board up side down as a whole on a flat surface with foil side of the main board facing up.
2. Operate the unit using the buttons on CP-1 PWB or the remote control.

M-SR2LN/E-4

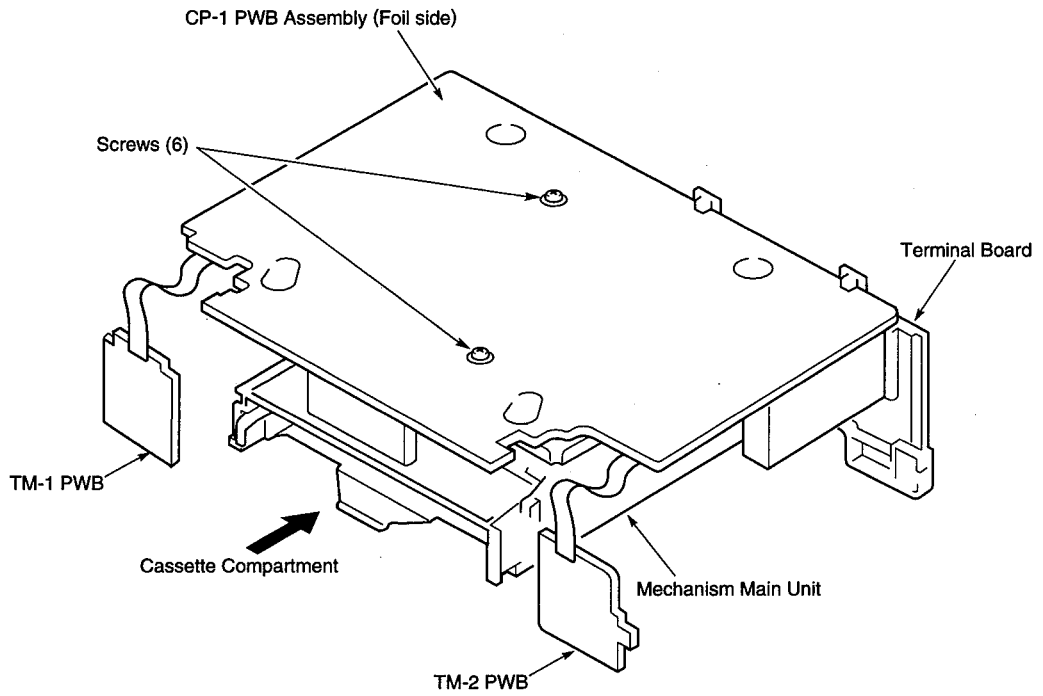


Fig. 1-1-4

1-3. INSTALLATION OF THE FRONT PANEL

When installing the front panel to the chassis after repaires and adjustments.

1. Pressing down the door opener lever of the mechanism main unit.
2. Set the cassette door to half-opened state as shown in Fig. 1-1-5, and install the front panel to the chassis.

Note: Opened cassette door position does not install the front panel to the chassis.

M-SR2LN/E-5

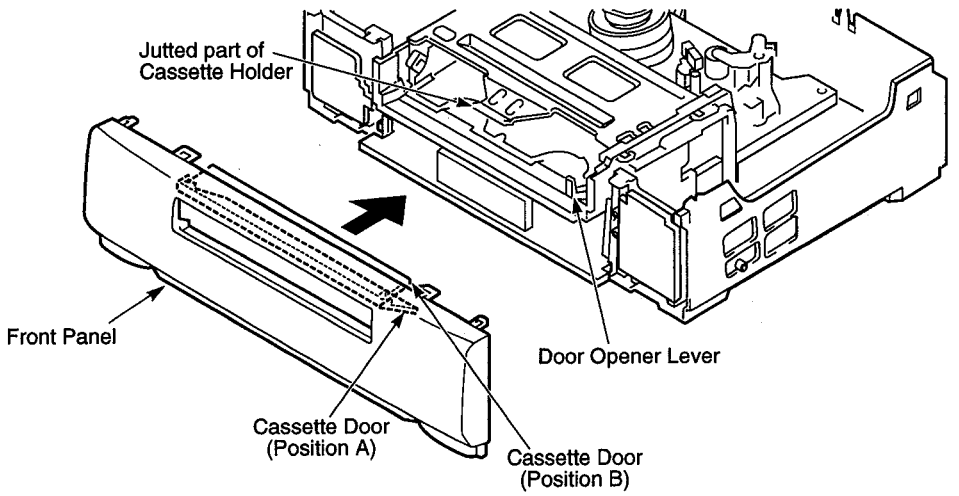


Fig. 1-1-5

Note: Before assembling the mechanism unit and the CP-1 board, check the eject mode positioning marks as shown in Fig. 1-1-6 and Fig. 1-1-7.

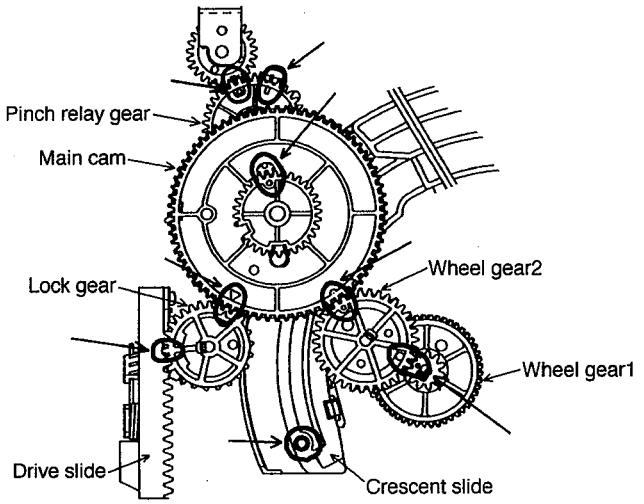


Fig. 1-1-6

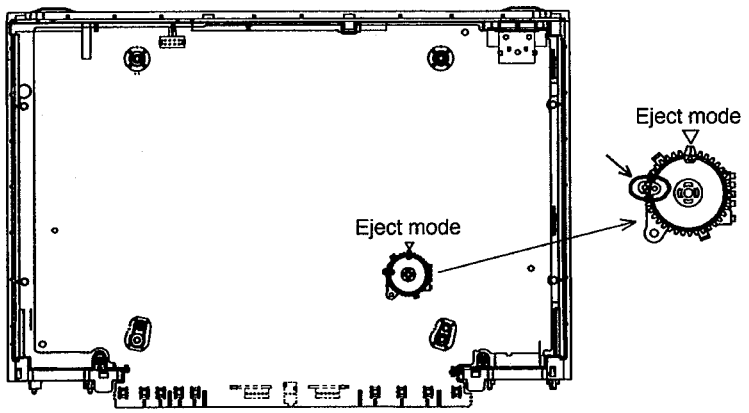
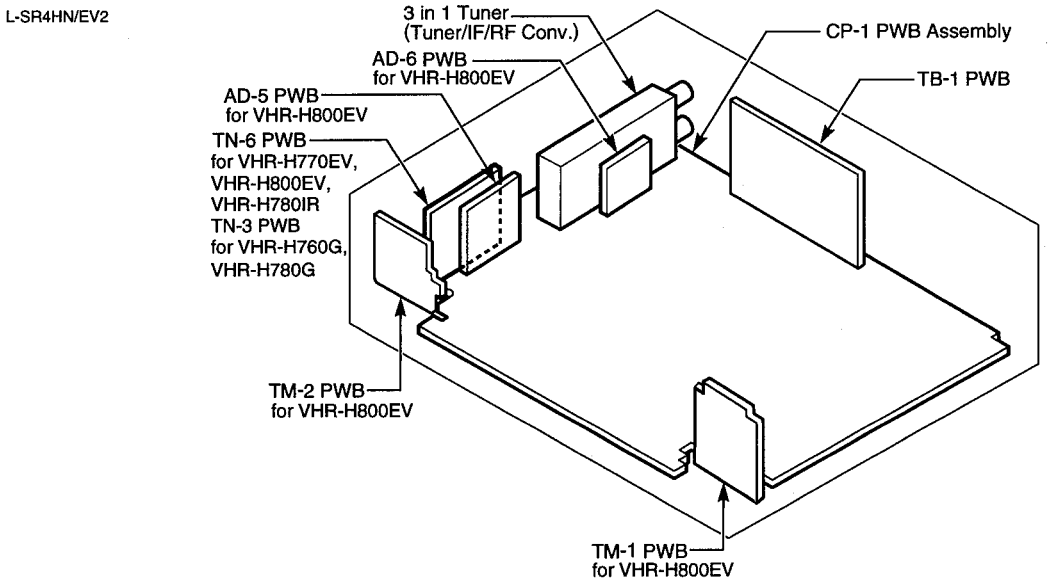


Fig. 1-1-7

1-4. CIRCUIT BOARD LOCATIONS



2. ELECTRICAL ADJUSTMENT

VCR PRESETTING

This VCR need three basic presetting by using the menus displayed on-screen. After all connection have been made, then follow steps 1 to 3 to preset the VCR.
The three presetting steps will be displayed in sequence on TV screen. The setting are entered with the remote control.

Turn on the VCR

1. Adjusting the TV receiver to the video channel: The AUTO SETUP screen will appear. When the video channel has been preset, press the OK button on the remote control.
2. Country selection: Using the numeric button, select the country of use.
3. Language selection: When the desired language has been select, press the MENU/TV button directly before prevent auto tuning will start.

When steps 1 to 3 have been finish, ready to operate the all operating mode.

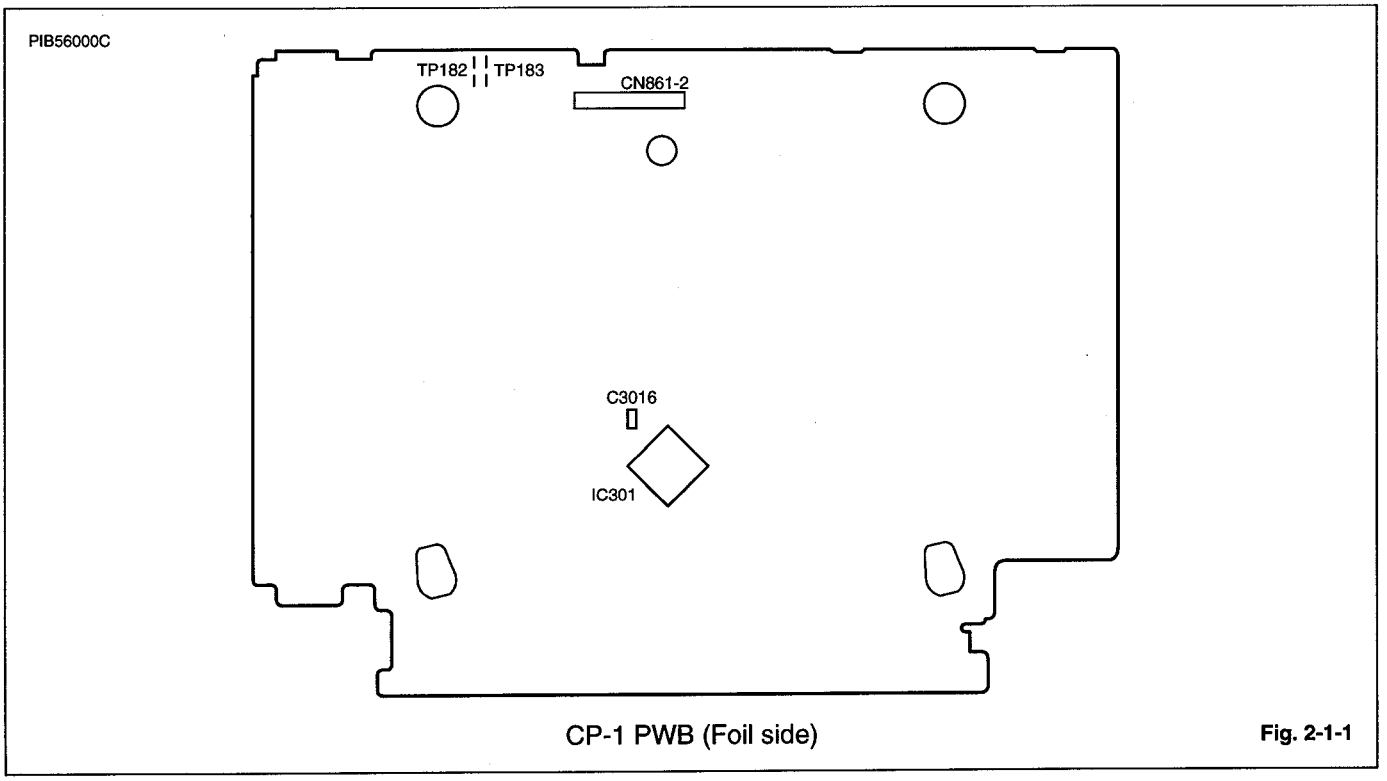
2-1. SERVO CIRCUIT ADJUSTMENT

- These adjustments should be done upon completion of the tape transport adjustments.
- If the tape transport adjustments (except the tilt adjustment) are done after these adjustments, follow the procedures again in section 2-1-3, "Switching position adj."
- When a cassette tape is loaded, auto-tracking will be set immediately after starting the first playback. As this will daviate the tracking center set, be sure to press the channel buttons (+) and (–) once directly after starting playback to prevent auto-tracking from being set.

2-1-1. TEST EQUIPMENT AND STANDARDS REQUIRED

Oscilloscope	Vertical sensitivity Bandwidth	: 5 mV/DIV, external trigger : more than 10 MHz
Alignment Tape	VHJ-0009 or VHJ-0023	: SP mode, monoscope, 6 KHz
Blank Tape	VHS-type cassette tape	
Monitor TV		

2-1-2. LOCATION OF ADJUSTMENT POINTS



CP-1 PWB (Foil side)

Fig. 2-1-1

Note:

- Set the REC/PLAY SPEED button to indicator panel in the SP mode.
- Self-recording means "Record any broadcasting or video signal and playback the just-recorded portion."

2-1-3. SWITCHING POSITION ADJ.

Measuring Point	Measuring Equipment	Adj. Condition
CN861-2 (VIDEO LEVEL) TP183 (RF SW-P)	Oscilloscope	PLAY (SP) mode Alignment tape VHJ-0009 (PM-S6)

Adj. Location	Adj. Value
REC button Channel (+) and (–) button PLAY button	6.5 H ± 0.5 H

1. At playback starts, press the REC button 3 times within 3 seconds after the playback picture comes out. However, these 3-push must be done within 2 seconds, and last push must be kept pressed for 0.5 seconds. (Fig. 2-1-3)
2. "P 0:00" is appeared in FLD, and it becomes the adjustment mode. This indication value changes automatically, and 6.5 H adjustment is done. When this value stops, adjustment value almost becomes 6.5 H.
3. Observe the video output signal by the oscilloscope, triggered by the fall down point of RF SW PULSE (TP183), and confirm that a front edge of V-SYNC is delayed for 6.5 H ± 0.5 H from the fall down point of RF SW PULSE. (Fig. 2-1-4)
4. After the adjustment data is fixed (it should be within 15 seconds from the adjustment mode start), press the PLAY button more than 1 second. Then the indication changes to "P –:–", it writes the data (delay quantity) to the E^2PROM. (If it passes through 15 seconds before pushing the PLAY button, the intake of the data isn't done, and it finishes the adjustment mode.)
5. If it is not in 6.5 H ± 0.5 at the time of the confirmation by the above 3., make manual fine adjustment by pressing the channel button, and do the operation of 4.

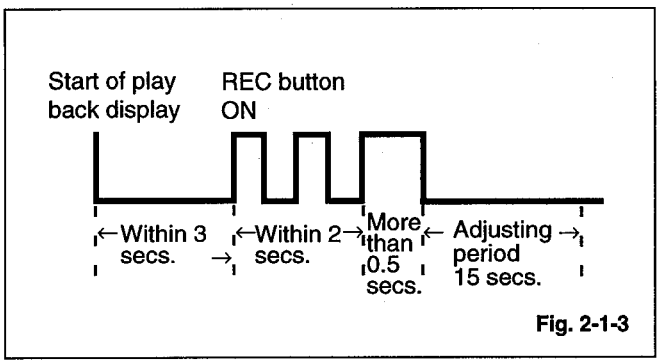


Fig. 2-1-3

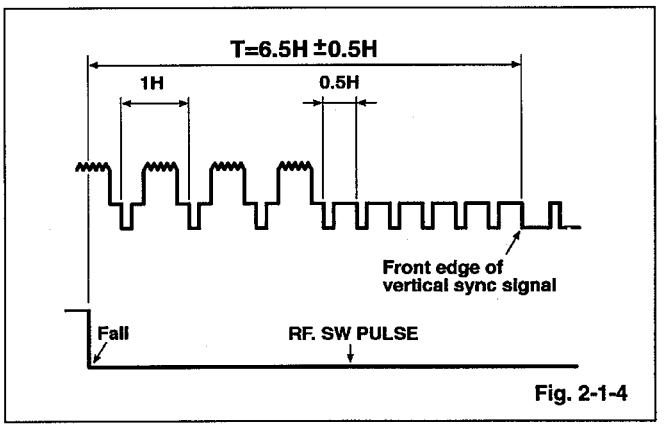


Fig. 2-1-4

2-1-4. SP STILL V-LOCK ADJ.

Measuring Point	Measuring Equipment	Adj. Condition
Picture of monitor	Monoscope pattern	Self-recording (SP mode) STILL mode

Adj. Location	Adj. Value
Channel (+) and (–) button	The minimum vertical shake

1. Set the REC/PLAY SPEED button to the SP mode.
2. Play back the own recorded portion of the tape and then set the VCR in the STILL mode.
3. Press the channel (+) and (–) button so that the vertical shake of picture becomes its minimum.

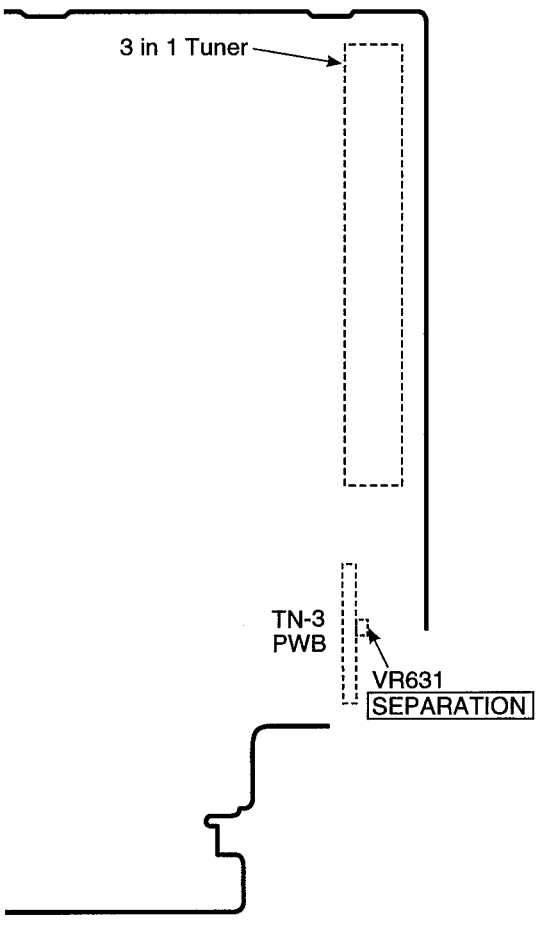
2-2. MTS DECODER CIRCUIT ADJUSTMENT for VHR-H760G and VHR-H780G

- If adjusting the MTS Decoder circuit, special equipment shown in section 2-2-1. is necessary.
- Improper adjustment will cause loss of performance of stereo sound and bilingual sound detection.
- Before making these adjustments, be sure to make the adjustments described in section 2-1. " Servo Circuit."

2-2-1. TEST EQUIPMENT AND STANDARDS REQUIRED

Audio Multiplex TV signal Generator	
Oscilloscope	
AC Voltmeter	
Low Path Filter	15 kHz (48dB/oct)

2-2-2. LOCATION OF ADJUSTMENT POINTS



CP-1 PWB (Foil side) **Fig. 2-2-1**

Note:

- Set the following remote control button to the positions indicated below, before making following adjustments.

REMOTE CONTROL BUTTON	POSITION
TAPE SPEED	SP
INPUT	AV
AUDIO	LR

2-2-3. SEPARATION ADJ.

Measuring Point	Measuring Equipment	Adj. Condition
AUDIO OUTPUT terminal EURO pin3 (Lch)	Audio Multiplex TV signal generator Oscilloscope Low path filter 15 kHz (48 dB/oct)	E-E mode

Adj. Location	Adj. Value
VR631 (SEPARATION)	Minimum level

1. Input the output signal of the audio multiplex TV signal generator into the VCR ANT input terminal.
2. Connect the oscilloscope to the audio output terminal EURO pin 3 (Lch) of the VCR via the LPF.
3. Set the audio multiplex TV signal generator as follows.
   Audio signal Rch: 1 kHz 30% modulation
   Audio signal Lch: Unmodulation
4. Adjust VR631 (SEPARATION) so that the output of the audio output terminal (Lch) is brought to its minimum level.

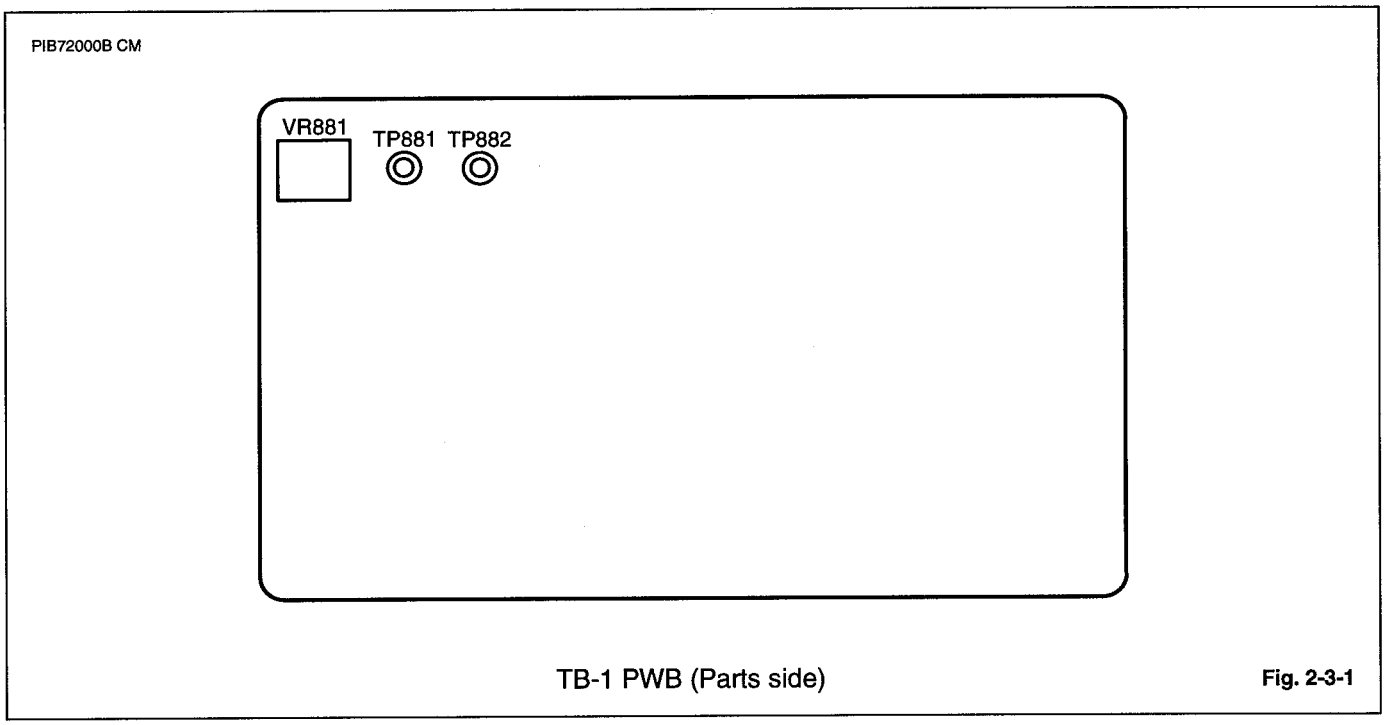
2-3. CM CUT CIRCUIT ADJUSTMENT for VHR-H800EV

- Before making these adjustments, be sure to make the adjustments described in section 2-1. "Servo Circuit" and "MECHANISM".

2-3-1. TEST EQUIPMENT AND STANDARDS REQUIRED

Oscilloscope	Vertical sensitivity : 5 mV/DIV Bandwidth : more than 30 MHz
Blank Tape	VHS-type cassette tape

2-3-2. LOCATION OF ADJUSTMENT POINTS



TB-1 PWB (Parts side)

Fig. 2-3-1

Note:

- Set the following remote control button to the positions indicated below, before making following adjustments.

REMOTE CONTROL BUTTON	POSITION
TAPE SPEED	SP
INPUT	AV

2-3-3. DC LEVEL ADJ.

Measuring Point	Measuring Equipment	Adj. Condition
TP881, TP882 Tuner (GND)	Oscilloscope (10:1 probe)	REC (SP) mode Blank tape

Adj. Location	Adj. Value
VR881	95 ± 5 mV

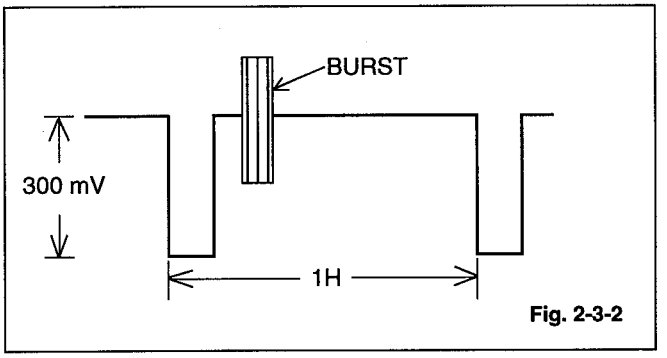


Fig. 2-3-2

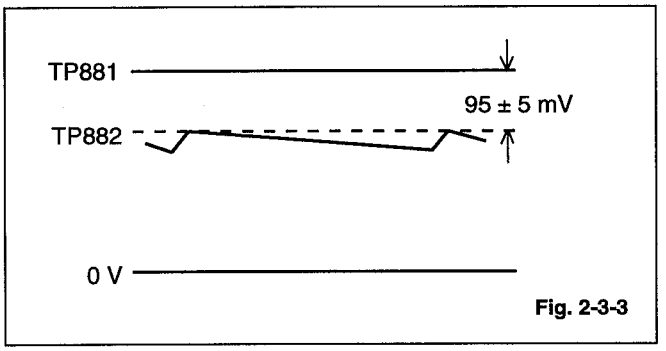


Fig. 2-3-3

2-4. CHECKING THE RF CHANNEL

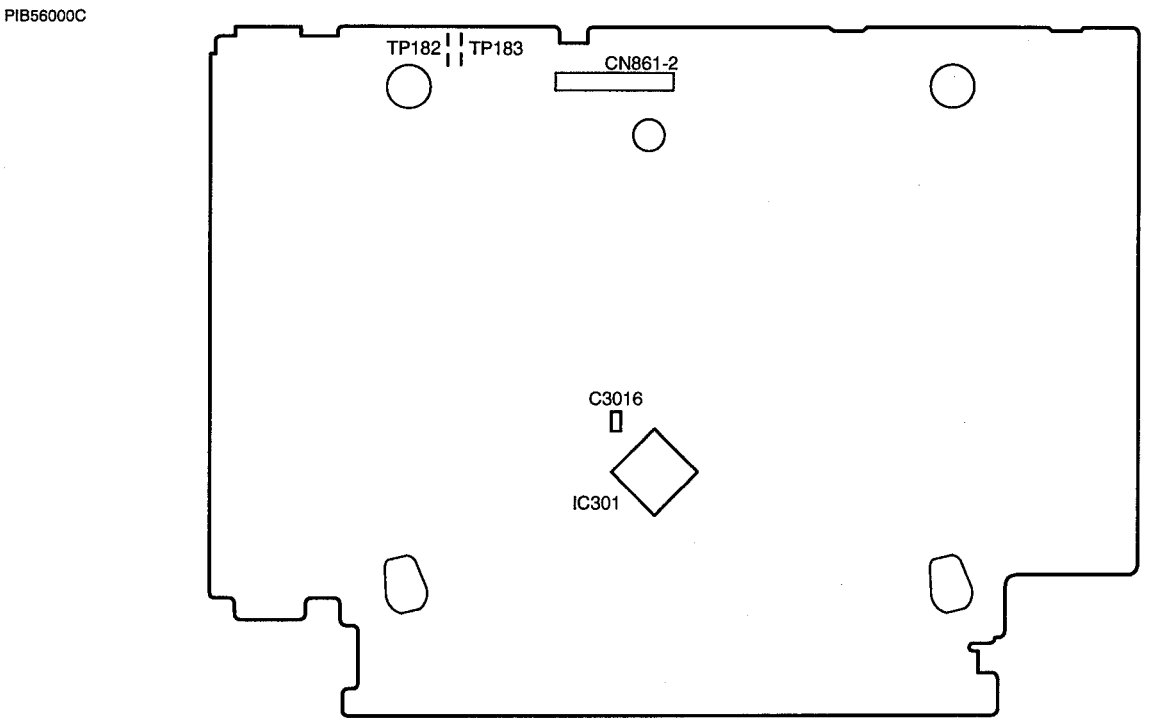
If the TV and VCR are connected by an aerial output cable which has poor shielding characteristics, turn off the RF converter of the VCR and use the VCR with an AV cable. To turn the RF converter off, input "00" when setting the RF (when "RF" is displayed) during VCR pre-setting.

2-5. EEPROM

The EEPROM contains program data, so use the EEPROM with the part number that appears in the part list.

3. TEST POINTS FOR TAPE PATH ADJUSTMENT

Test points TP182 (ENV) and TP183 (SW-P) for tape path adjustment are shown in figure below.
For adjustment, refer to the separate volume "VC Mechanism Manual" (MM531683) and "VC2K Mechanism Manual" (MS5310134).



CP-1 PWB Assembly (Foil side)

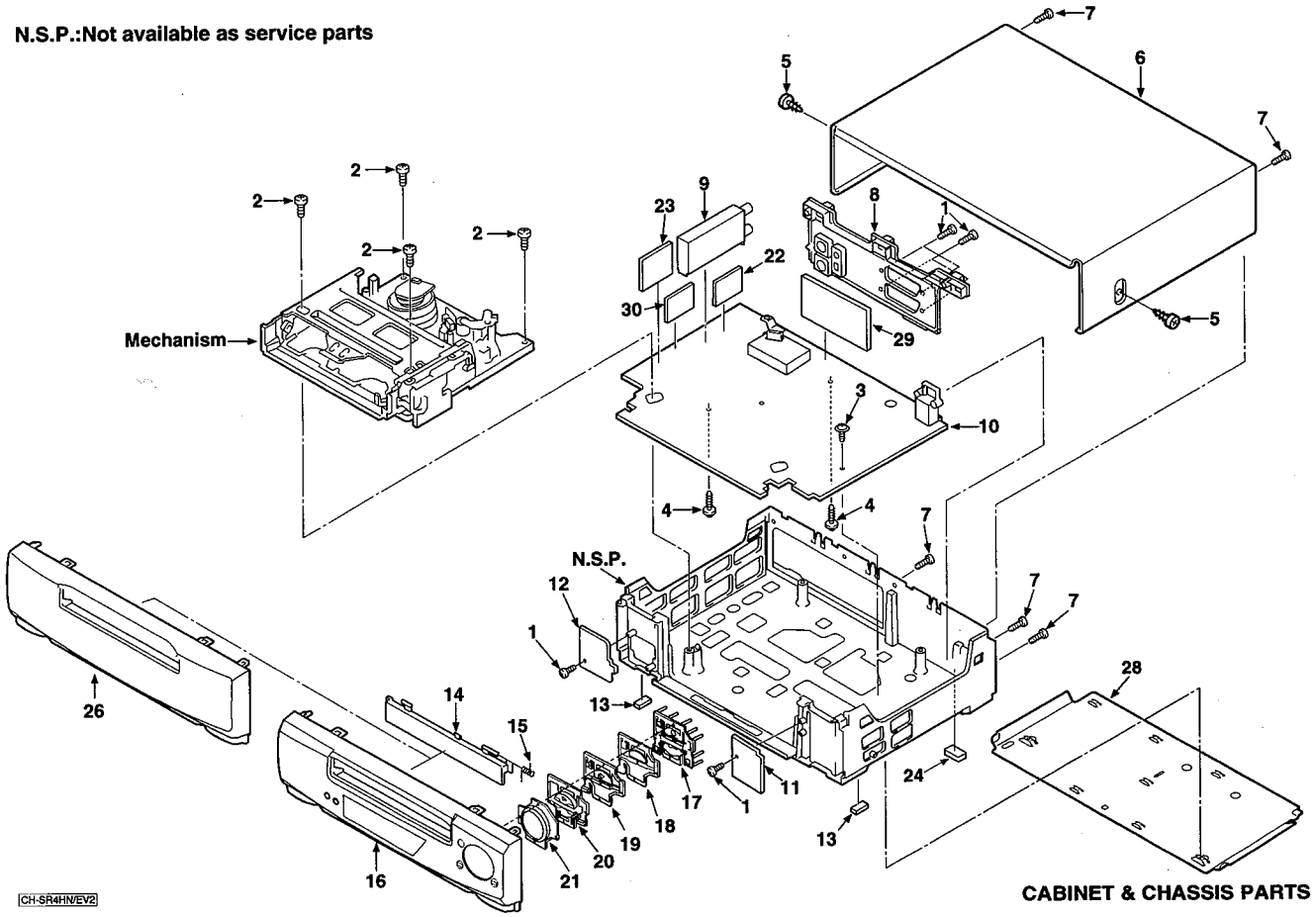
Fig. 3-1

4. PARTS LIST

CABINET & CHASSIS PARTS

LOCATION	PARTS NO.	DESCRIPTION
1	411 137 0007	SCR L-TPG BIN 3X10
2	411 021 7907	SCR S-TPG BIN 4X12
3	411 142 9200	SCR S-TPG PAN+FLG 3X10
4	412 052 5108	SPECIAL SCREW-2.6X12
5	411 021 8003	SCR S-TPG BIN 4X12
6	613 187 4732	COVER TOP,VHR-H760G ONLY
6	613 187 5807	COVER TOP,VHR-H780IR ONLY
6	613 187 5821	COVER TOP,EXCEPT VHR-H780IR,VHR-H760G
7	411 025 5404	SCR S-TPG BIN 3X12
8	613 183 5047	TERMINAL,EXCEPT VHR-H800EV,VHR-H780G
8	613 184 1574	TERMINAL,VHR-H800EV ONLY
8	613 184 8238	TERMINAL,VHR-H780G ONLY
9	645 031 0812	TUNER,RF/TU/IF,EXCEPT VHR-H780IR
9	645 031 0836	TUNER,RF/TU/IF,VHR-H780IR ONLY
10	613 190 1285	COMPL PWB,CP-1-A,VHR-H800EV ONLY
10	613 190 5955	COMPL PWB,CP-1-A,VHR-H780IR ONLY
10	613 191 5015	COMPL PWB,CP-1-A,VHR-H760G ONLY
10	613 191 5022	COMPL PWB,CP-1-A,VHR-H780G ONLY
10	613 191 8948	COMPL PWB,CP-1-A,VHR-H770EV ONLY
11	613 190 5627	COMPL PWB,TM-1,VHR-H800EV ONLY
12	613 190 5597	COMPL PWB,TM-2,VHR-H800EV ONLY
13	613 189 5799	STAND,(FRONT),VHR-H800EV ONLY
13	613 121 1001	STAND,FELT,(FRONT),EXCEPT VHR-H800EV
14	613 189 3139	DOOR CASSETTE,VHR-H780IR ONLY
14	613 190 4873	DOOR CASSETTE,VHR-H800EV ONLY
14	613 191 5299	DOOR CASSETTE,VHR-H760G ONLY
14	613 191 5756	DOOR CASSETTE,VHR-H780G ONLY
14	613 191 9235	DOOR CASSETTE,VHR-H770EV ONLY
15	613 183 9700	SPRING,VHR-H800EV ONLY
15	613 188 1617	SPRING,EXCEPT VHR-H800EV
16	613 192 9975	ASSY,CABINET FRONT SID,VHR-H800EV ONLY
17	613 189 2057	HOLDER 7P,VHR-H800EV ONLY
18	613 190 5443	DEC SHEET,VHR-H800EV ONLY
19	613 189 7823	BUTTON 5P,VHR-H800EV ONLY
20	613 189 7830	BUTTON 3P,VHR-H800EV ONLY
21	613 191 2168	DEC,BUTTON,VHR-H800EV ONLY
22	613 184 7828	COMPL PWB,AD-6,VHR-H800EV ONLY
23	613 189 5508	COMPL PWB,TN-6, EXCEPT VHR-H760G,VHR-H780G
23	613 176 9892	COMPL PWB,TN-3,VHR-H760G,VHR-H780G
24	613 189 5805	STAND,(BACK),VHR-H800EV ONLY
26	613 190 2015	ASSY,CABINET FRONT SID,VHR-H780IR ONLY
26	613 191 2571	ASSY,CABINET FRONT SID, VHR-H780G,VHR-H770EV
26	613 191 5169	ASSY,CABINET FRONT SID,VHR-H760G ONLY
28	613 183 7898	COVER BOTTOM
29	613 189 4327	COMPL PWB,TB-1, EXCEPT VHR-H800EV,VHR-H780G
29	613 190 5184	COMPL PWB,TB-1,VHR-H800EV ONLY
29	613 190 5573	COMPL PWB,TB-1,VHR-H780G ONLY
30	613 184 9228	COMPL PWB,AD-5,VHR-H800EV ONLY

N.S.P.:Not available as service parts



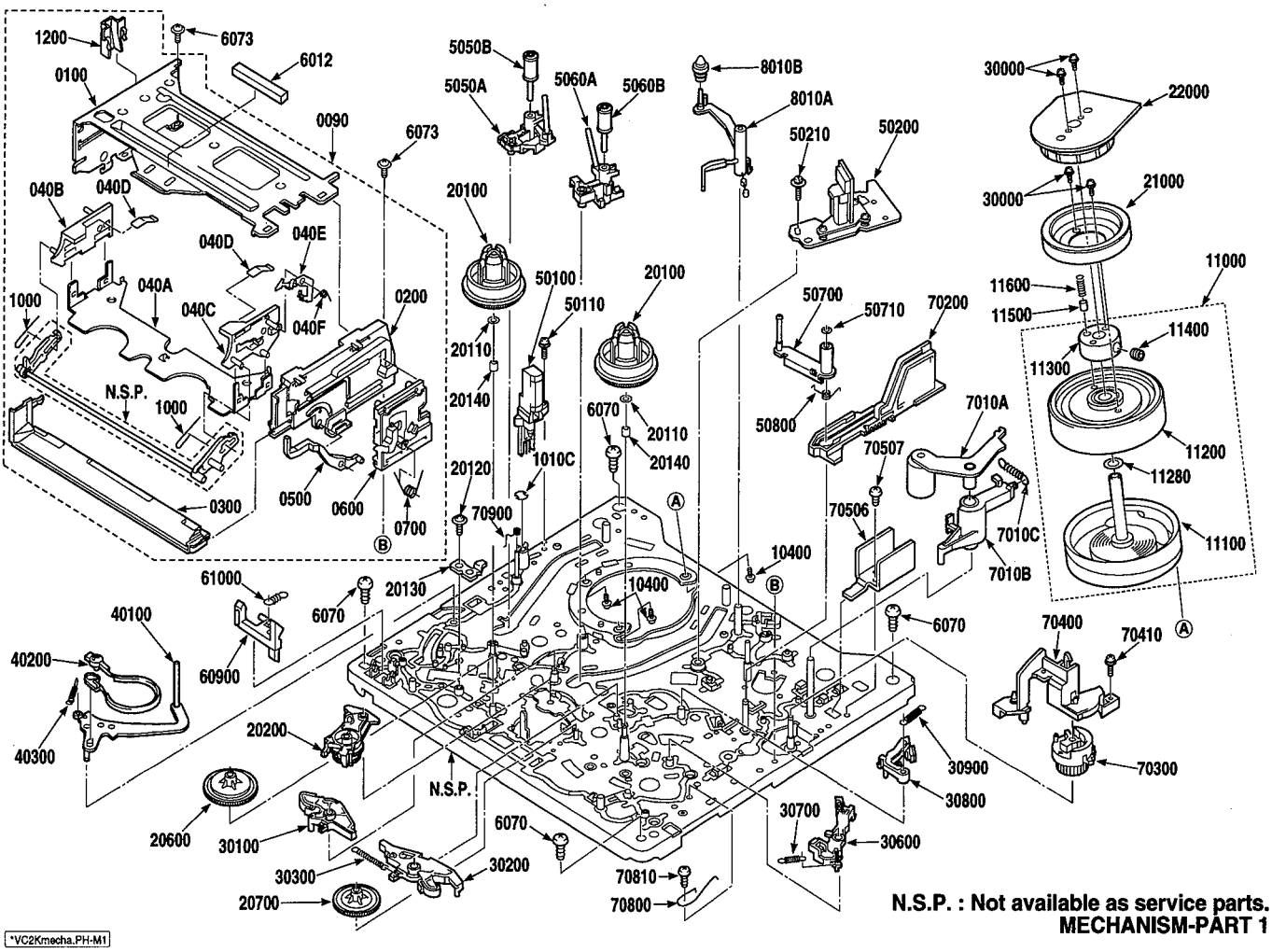
CABINET & CHASSIS PARTS

MECHANISM PARTS

MECHANISM PARTS 1

LOCATION	PARTS NO.	DESCRIPTION
11000	613 189 9049	COMPL,CYLINDER,4H6P-R4
OR	613 189 9032	COMPL,CYLINDER,4H6P-R4
11100	613 188 3277	ASSY,CYLINDER,LWR 6C
OR	613 188 3284	ASSY,CYLINDER,LWR 6C
11200	613 189 9063	ASSY,CYLINDER,UPR,4H6P-R4
OR	613 189 9070	ASSY,CYLINDER,UPR,4H6P-R4
11280	613 182 6366	SPACER,CYLINDER
11300	613 182 6311	MOUNTING,MOTOR,CYLINDER
OR	613 189 9124	MOUNTING,MOTOR,CYLINDER
11400	411 158 0208	SCR SET HEX-SCT 4X6
11500	613 182 6229	EARTH,CHIP,CYLINDER
11600	613 182 6533	SPRING,EARTH,CYLINDER
21000	645 035 8043	MOTOR,ROTOR,CYL DC 2W VC
22000	645 035 7046	MOTOR,STATOR,CYL DC 2W VC
30000	412 036 5001	SPECIAL SCREW 2.3X6
6012	613 151 6618	PAD
6073	411 177 3709	SCR S-TPG CUP 2.6X6
0090	613 187 2646	COMPL,CASSETTE MECHA VC
0100	613 182 3778	STAND,L VC
0200	613 182 3785	STAND,R VC
0300	613 152 0660	FRAME UNDER
040A	613 168 0937	TRAY,VC
040B	613 187 2769	GUIDE,CASSETTE L VC
040C	613 182 3723	GUIDE,CASSETTE R VC
040D	613 182 3815	SPRING,PLATE VC
040E	613 182 3730	LEVER,LID OPENER VC
040F	613 182 3822	SPRING,LID OPENER VC
0500	613 182 3747	LEVER,DOOR OPENER VC
0600	613 182 3808	SLIDE,DRIVE VC
0700	613 182 3839	SPRING,START VC

LOCATION	PARTS NO.	DESCRIPTION
1000	613 183 8277	SPRING,TRAY VC
1200	613 184 6630	HOOD,SENSOR VC
6070	411 021 7907	SCR S-TPG BIN 4X12
1010C	613 182 4461	GUIDE,S VC
10400	412 052 6204	SPECIAL SCREW-2.6X5.5
20100	613 187 7009	REEL,SPINDLE VC-H
20110	412 059 1509	SPECIAL WASHER 3.4X0.3
OR	412 058 0503	SPECIAL WASHER 3.4X0.4
OR	412 059 1608	SPECIAL WASHER 3.4X0.5
20120	411 025 5107	SCR P-TPG BIN 2.6X8
20130	613 185 8978	MOUNTING,BT BAND VC
20140	613 192 2778	PIPE,REEL VC-H
		NOTE : The PIPE, REEL VC-H are manufactured from either plastic or metal. Only the which are made from plastic can replaced.
20200	613 187 6637	COMPL,MOUNTING,IDLER VC-H
20600	613 187 6651	GEAR,REEL S VC-H
OR	613 192 7810	GEAR,REEL S VC-H
20700	613 187 6668	GEAR,REEL T VC-H
OR	613 192 7827	GEAR,REEL T VC-H
30100	613 189 3634	ASSY,BRAKE,S 2K
30200	613 189 3641	ASSY,BRAKE,T 2K
30300	613 189 3887	SPRING,BRAKE MAIN 2K
30600	613 182 4690	ASSY,BRAKE,SOFT T VC
30700	613 182 6595	SPRING,BRAKE SOFT T VC
30800	613 151 8490	ASSY,BRAKE CAPSTAN
30900	613 152 0356	SPRING,BRAKE CAPSTAN
40100	613 151 8759	ASSY,LEVER,BT
40200	613 160 5282	ASSY,BRAKE,BAND
40300	613 152 0271	SPRING,BT
5050A	613 182 3228	ASSY,MOUNTING,INCL S VC
5050B	613 184 4384	ASSY,ROLLER,GUIDE



N.S.P. : Not available as service parts.

MECHANISM-PART 1

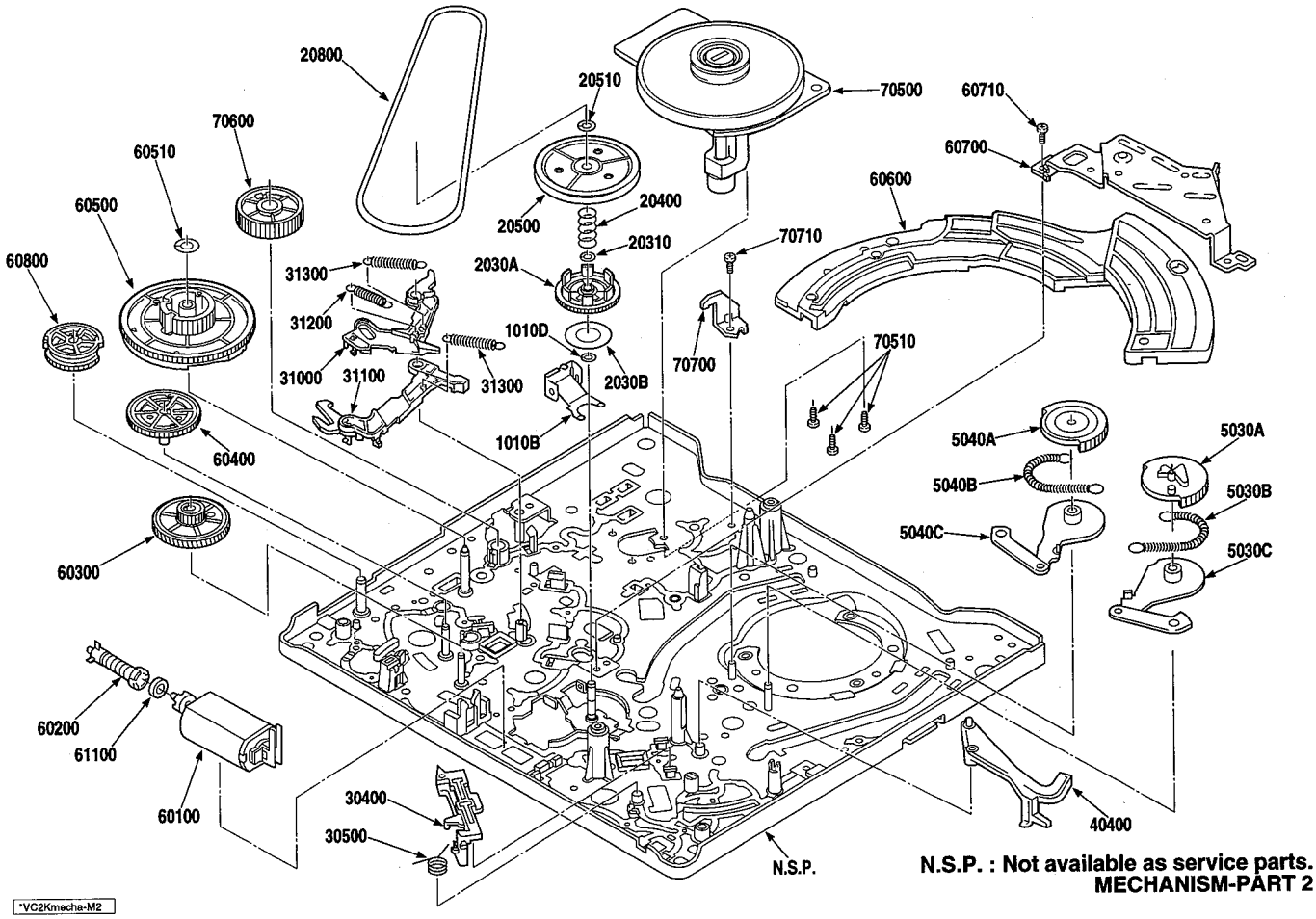
*VC2Kmecha.PH-M1

LOCATION	PARTS NO.	DESCRIPTION
5060A	613 182 3242	ASSY,MOUNTING,INCL T VC
5060B	613 184 4384	ASSY,ROLLER,GUIDE
50100	645 030 0950	HEAD,ERASE FULL VC
OR	645 030 7331	HEAD,ERASE FULL VC
50110	412 049 1700	SPECIAL SCREW-2.6X10
50200	613 184 5916	ASSY,HEAD R/P ACE VC
50210	412 052 3500	SPECIAL SCREW 2.6X12
50700	613 182 5758	ASSY,LEVER LOAD VC
50710	411 109 1902	WASHER Y 3.1X6X0.5
OR	411 109 2404	WASHER Y 3.1X6X0.4
OR	411 179 0805	WASHER Y 3.1X6X0.6
50800	613 182 6540	SPRING,LEVER LOAD VC
60900	613 182 4249	LEVER,EP SW VC
61000	613 182 4256	SPRING,EP SW VC
7010A	613 182 6809	ASSY,LEVER,PINCH VC
7010B	613 182 6328	MOUNTING,LIFT PINCH VC
7010C	613 182 6557	SPRING,PINCH ROLLER VC
70200	613 182 6250	GEAR,RACK PINCH VC
70300	613 182 6243	GEAR,CAM PINCH VC
70400	613 182 6335	MOUNTING,OPENER VC
70410	412 060 8108	SPECIAL SCREW-2.6X9
70506	613 193 1350	MOUNTING,RADIATOR 2K,VHR-H800EV ONLY
70507	412 048 9608	SPECIAL SCREW-2.6X3,VHR-H800EV ONLY
70800	613 185 7490	SPRING,EARTH VC
70810	412 048 8007	SPECIAL SCREW-2.6X6
70900	613 186 5129	SPRING,GUIDE EARTH VC
8010A	613 171 9606	LEVER,CLEANER,VHR-H800EV ONLY
8010B	613 171 9439	ASSY,MOUNTING CLEANER, VHR-H800EV ONLY

MECHANISM PARTS 2

1010B	613 182 3358	LEVER,CLUTCH VC
1010D	411 120 1400	WASHER Y 2.6X4.7X0.25
2030A	613 187 6675	GEAR,CLUTCH VC-H
2030B	412 058 7908	SPECIAL WASHER 7.3X16X0.5
20310	411 109 4002	WASHER Y 2.6X4.7X0.5

LOCATION	PARTS NO.	DESCRIPTION
20400	613 190 9144	SPRING,CLUTCH 2K
20500	613 182 2986	ASSY,PULLEY,FRICTION VC
20510	412 045 4606	SPECIAL WASHER 2.4X6X0.25
20800	613 182 3259	BELT,REEL VC,EXCEPT VHR-H800EV
20800	613 187 0246	BELT,REEL VC-H,VHR-H800EV ONLY
30400	613 182 6526	SLIDE,SOFT S VC
30500	613 182 6601	SPRING,BRAKE SOFT S VC
31000	613 189 3856	LEVER,CONTROL BRAKE 2K
31100	613 189 3771	COMPL,LEVER,ACT BRAKE 2K
31200	613 189 3917	SPRING,CHANGE CLUTCH 2K
31300	613 189 3900	SPRING,RETURN BRAKE 2K
40400	613 153 7583	ASSY,LEVER SPRING BT
5030A	613 152 2763	GEAR,LOAD S
5030B	613 152 0370	SPRING,LOAD S
5030C	613 160 3691	ASSY,LEVER,LOAD S
5040A	613 152 2770	GEAR,LOAD T
5040B	613 152 0363	SPRING,LOAD T
5040C	613 160 3707	ASSY,LEVER,LOAD T
60100	645 029 7014	ASSY,MOTOR LOADING BB VC
60200	613 151 8599	COMPL,GEAR,WORM
60300	613 187 4602	GEAR,WHEEL 1
60400	613 160 3790	GEAR,WHEEL 2
60500	613 182 3273	CAM,MAIN VC
60510	412 054 6806	SPECIAL WASHER 3.6X0.5
60600	613 182 3419	SLIDE,CRESCENT VC
60700	613 182 4485	MOUNTING CRESCENT VC
60710	412 048 8007	SPECIAL SCREW-2.6X6
60800	613 182 6236	GEAR,LOCK VC
61100	613 151 9107	DAMPER
70500	645 030 3388	MOTOR,CAPSTAN DC 3W VC, EXCEPT VHR-H800EV
70500	645 040 6096	MOTOR,CAPSTAN DC 3W VC, VHR-H800EV ONLY
70510	412 048 7604	SPECIAL SCREW-2.6X6
70600	613 182 3327	GEAR,RELAY PINCH VC
70700	613 167 5926	MOUNTING CAPSTAN,EXCEPT VHR-H800EV
70710	412 048 8007	SPECIAL SCREW-2.6X6,EXCEPT VHR-H800EV



N.S.P. : Not available as service parts.
MECHANISM-PART 2

ELECTRICAL PARTS

Note:

1. **Materials of Capacitors and Resistors are abbreviated as follows ;**

Resistors		Capacitors	
MT-FILM	Metallized Film Resistor	MT-POLYEST	Metallized Polyester Capacitor
MT-GLAZE	Metallized Glaze Resistor	MT-COMPO	Metallized Composite Capacitor
OXIDE-MT	Oxide Metallized Film Resistor	TA-SOLID	Tantalum Solid Capacitor
		AL-SOLID	Aluminum Solid Capacitor
		NP-ELECT	Non-Polarized Electrolytic Capacitor
		OS-SOLID	Aluminum Solid Capacitors with Organic Semiconductive Electrolytic Capacitor
		DL-ELECT	Double Layered Electrolytic Capacitor

2. **Tolerance of Capacitor (10pF over) and Resistor are noted with follow symboles.**
   F .....1% G .....2% J .....5% K 10%
   M .....20% N .....30% Z .....+80% ~ -20%
3. **Capacitors**
   U : μF P : pF
4. **Inductors**
   UH : μH MH : mH
5. **N.S.P. : Not available as service parts.**

COMPL PWB,CP-1-A

LOCATION	PARTS NO.	DESCRIPTION
	613 190 1285	VHR-H800EV ONLY
	613 190 5955	VHR-H780IR ONLY
	613 191 5015	VHR-H760G ONLY
	613 191 5022	VHR-H780G ONLY
	613 191 8948	VHR-H770EV ONLY
	(CONNECTORS)	
CN181	645 030 7393	SOCKET,FFC 10P (N.S.P)
CN233	645 029 8011	SOCKET,2P (N.S.P)
CN351	645 009 4095	SOCKET,FFC 5P (N.S.P)
CN352	645 008 1842	PLUG,8P (N.S.P)
CN501	⚠ 645 000 5411	SOCKET,INLET AC
OR	⚠ 645 028 4885	SOCKET,INLET AC
CN701	645 009 4118	SOCKET,FFC 7P (N.S.P),VHR-H800EV ONLY
OR	645 005 4150	SOCKET,7P (N.S.P),VHR-H800EV ONLY
CN801	645 029 8011	SOCKET,2P (N.S.P)
	(SEMICONDUCTORS)	
Q1001	405 014 4509	TR 2SC2412K-R
OR	405 014 4608	TR 2SC2412K-S
Q1002	405 035 6100	TR 2SC2413K-Q
Q1003	405 014 4509	TR 2SC2412K-R
OR	405 014 4608	TR 2SC2412K-S
Q1004	405 002 0308	TR 2SA1037K-R
OR	405 002 0407	TR 2SA1037K-S
Q1005	405 014 4509	TR 2SC2412K-R
OR	405 014 4608	TR 2SC2412K-S
Q1006	405 014 4509	TR 2SC2412K-R
OR	405 014 4608	TR 2SC2412K-S
Q1007	405 014 4509	TR 2SC2412K-R
OR	405 014 4608	TR 2SC2412K-S
Q1008	405 002 0308	TR 2SA1037K-R,EXCEPT VHR-H800EV
OR	405 002 0407	TR 2SA1037K-S,EXCEPT VHR-H800EV
Q1009	405 014 4509	TR 2SC2412K-R,EXCEPT VHR-H800EV
OR	405 014 4608	TR 2SC2412K-S,EXCEPT VHR-H800EV
Q1010	405 002 0308	TR 2SA1037K-R,EXCEPT VHR-H800EV
OR	405 002 0407	TR 2SA1037K-S,EXCEPT VHR-H800EV
Q1011	405 000 2908	TR DTC114EK
Q1012	405 002 0308	TR 2SA1037K-R
OR	405 002 0407	TR 2SA1037K-S
Q1013	405 035 6100	TR 2SC2413K-Q
Q1016	405 000 2908	TR DTC114EK
Q2001	405 003 5609	TR 2SA1318-S
OR	405 003 5708	TR 2SA1318-T
OR	405 003 5807	TR 2SA1318-U
Q2002	405 025 0200	TR 2SD734-G
OR	405 024 9907	TR 2SD734-F
Q2003	405 018 0002	TR 2SC3331-S
OR	405 018 0101	TR 2SC3331-T
OR	405 018 0200	TR 2SC3331-U
Q2004	405 018 0002	TR 2SC3331-S
OR	405 018 0101	TR 2SC3331-T
OR	405 018 0200	TR 2SC3331-U
Q2005	405 003 5609	TR 2SA1318-S
OR	405 003 5708	TR 2SA1318-T
OR	405 003 5807	TR 2SA1318-U
Q2006	405 000 2007	TR DTA144EK,VHR-H800EV ONLY
Q2007	405 029 3504	TR DTC144EK,VHR-H800EV ONLY
Q2301	405 083 5209	TR DTC343TK
Q2302	405 083 5209	TR DTC343TK
Q2303	405 000 2007	TR DTA144EK
Q2304	405 000 2007	TR DTA144EK
Q2305	405 029 3504	TR DTC144EK
Q2351	405 000 0508	TR DTA114ES,VHR-H800EV ONLY
Q2352	405 029 3504	TR DTC144EK,VHR-H800EV ONLY
Q2353	405 018 0101	TR 2SC3331-T,VHR-H800EV ONLY
OR	405 018 0200	TR 2SC3331-U,VHR-H800EV ONLY
Q2371	405 083 5209	TR DTC343TK,EXCEPT VHR-H770EV
Q2372	405 000 2007	TR DTA144EK,EXCEPT VHR-H770EV
Q3007	405 015 8407	TR 2SC2812-L5
OR	405 015 8704	TR 2SC2812-L6
OR	405 014 4509	TR 2SC2412K-R
OR	405 014 4608	TR 2SC2412K-S
Q3008	405 015 8407	TR 2SC2812-L5
OR	405 015 8704	TR 2SC2812-L6
OR	405 014 4509	TR 2SC2412K-R
OR	405 014 4608	TR 2SC2412K-S
Q3009	405 002 6508	TR 2SA1179-M5
OR	405 002 6706	TR 2SA1179-M6
OR	405 002 0308	TR 2SA1037K-R
OR	405 002 0407	TR 2SA1037K-S
Q3010	405 002 6508	TR 2SA1179-M5
OR	405 002 6706	TR 2SA1179-M6
OR	405 002 0308	TR 2SA1037K-R
OR	405 002 0407	TR 2SA1037K-S
Q3061	405 002 6508	TR 2SA1179-M5
OR	405 002 6706	TR 2SA1179-M6
OR	405 002 0308	TR 2SA1037K-R
OR	405 002 0407	TR 2SA1037K-S
Q3062	405 002 6508	TR 2SA1179-M5
OR	405 002 6706	TR 2SA1179-M6
OR	405 002 0308	TR 2SA1037K-R
OR	405 002 0407	TR 2SA1037K-S
Q3065	405 014 4509	TR 2SC2412K-R
OR	405 014 4608	TR 2SC2412K-S
Q3080	405 002 0308	TR 2SA1037K-R,VHR-H800EV ONLY
OR	405 002 0407	TR 2SA1037K-S,VHR-H800EV ONLY
Q3081	405 002 0308	TR 2SA1037K-R,VHR-H800EV ONLY
OR	405 002 0407	TR 2SA1037K-S,VHR-H800EV ONLY
Q3082	405 014 4509	TR 2SC2412K-R,VHR-H800EV ONLY
OR	405 014 4608	TR 2SC2412K-S,VHR-H800EV ONLY
Q3083	405 014 4509	TR 2SC2412K-R,VHR-H800EV ONLY
OR	405 014 4608	TR 2SC2412K-S,VHR-H800EV ONLY
Q3084	405 002 0308	TR 2SA1037K-R,VHR-H800EV ONLY
OR	405 002 0407	TR 2SA1037K-S,VHR-H800EV ONLY
Q3085	405 014 4509	TR 2SC2412K-R,VHR-H800EV ONLY
OR	405 014 4608	TR 2SC2412K-S,VHR-H800EV ONLY
Q3086	405 014 4509	TR 2SC2412K-R,VHR-H800EV ONLY
OR	405 014 4608	TR 2SC2412K-S,VHR-H800EV ONLY
Q3087	405 000 5305	TR DTC143TK,VHR-H800EV ONLY
Q3301	405 000 5305	TR DTC143TK, EXCEPT VHR-H760G,VHR-H780G
Q3302	405 000 2007	TR DTA144EK, EXCEPT VHR-H760G,VHR-H780G
Q3303	405 002 6508	TR 2SA1179-M5,VHR-H800EV ONLY
OR	405 002 6706	TR 2SA1179-M6,VHR-H800EV ONLY
OR	405 002 0308	TR 2SA1037K-R,VHR-H800EV ONLY
OR	405 002 0407	TR 2SA1037K-S,VHR-H800EV ONLY

LOCATION	PARTS NO.	DESCRIPTION
Q3541	405 029 3504	TR DTC144EK
OR	405 146 1407	TR KRC104S
OR	405 087 6103	TR FA1L4M
OR	405 018 1900	TR 2SC3395
Q3542	405 029 3504	TR DTC144EK
OR	405 146 1407	TR KRC104S
OR	405 087 6103	TR FA1L4M
OR	405 018 1900	TR 2SC3395
Q5101	405 080 4601	TR 2SC3808
Q5102	405 089 2103	TR 2SC4483-S
OR	405 089 2202	TR 2SC4483-T
OR	405 104 3108	TR 2SD1858-Q
OR	405 029 4501	TR 2SD1858-R
Q5103	405 013 6801	TR 2SC2274-E
OR	405 013 7006	TR 2SC2274-F
OR	405 013 7204	TR 2SC2274K-E
OR	405 013 7303	TR 2SC2274K-F
Q5104	405 089 2103	TR 2SC4483-S
OR	405 089 2202	TR 2SC4483-T
OR	405 104 3108	TR 2SD1858-Q
OR	405 029 4501	TR 2SD1858-R
Q5110	405 083 6305	TR DTB113ZK
Q5111	405 138 6601	TR DTA144EKA
Q5112	405 141 4403	TR DTC124EKA
Q5113	405 132 3101	TR DTC114EKA
Q5114	405 131 9500	TR 2SD2396-H
OR	405 131 9609	TR 2SD2396-J
OR	405 131 9708	TR 2SD2396-K
Q5115	405 138 6700	TR DTC144EKA
Q5116	405 141 4403	TR DTC124EKA
Q5117	405 083 6305	TR DTB113ZK
Q5120	405 013 6801	TR 2SC2274-E
OR	405 013 7006	TR 2SC2274-F
OR	405 013 7204	TR 2SC2274K-E
OR	405 013 7303	TR 2SC2274K-F
	(INTEGRATED CIRCUITS)	
IC101	409 445 6408	IC LA71592M-MPB
IC231	409 443 9302	IC AN3650NFBP
IC301	410 371 7506	IC MN101D02GXJ2,EXCEPT VHR-H780IR
IC301	410 371 7605	IC MN101D02FXE1,VHR-H780IR ONLY
IC302	409 440 4508	IC LB1643L
IC304	409 482 4702	IC E2PROM 8181290,VHR-H780IR ONLY
IC304	409 484 6704	IC E2PROM 8181410,VHR-H770EV ONLY
IC304	409 484 6902	IC E2PROM 8181350,VHR-H760G ONLY
IC304	409 484 7008	IC E2PROM 8181360,VHR-H780G ONLY
IC304	409 484 4809	IC E2PROM 8181082,VHR-H800EV ONLY
IC305	409 415 0009	IC BMR03H-04
IC306	409 018 4008	IC LA6393M,VHR-H800EV ONLY
IC501	409 470 2000	IC MA8910-4109
IC511	409 180 2307	IC UPC1093J
OR	409 067 7203	IC L5431
IC512	409 336 6302	IC SI-3090F-LF1113N
OR	409 471 6908	IC SI-3090F-LF1101
IC701	409 424 6900	IC MN12510F
IC771	409 380 8604	IC SDA5650
	(DIODES)	
D1001	407 012 4406	DIODE 1SS133
D1005	407 012 4406	DIODE 1SS133,EXCEPT VHR-H800EV
D1006	407 012 4406	DIODE 1SS133,EXCEPT VHR-H800EV
D1007	407 012 4406	DIODE 1SS133,VHR-H780G ONLY
D1008	407 012 4406	DIODE 1SS133,VHR-H780G ONLY
D1009	407 012 4406	DIODE 1SS133,EXCEPT VHR-H800EV
D1010	407 012 4406	DIODE 1SS133,EXCEPT VHR-H800EV
D1011	407 012 4406	DIODE 1SS133,EXCEPT VHR-H800EV
D2301	407 012 4406	DIODE 1SS133
D3001	407 007 9904	DIODE GMA01
OR	407 012 4406	DIODE 1SS133
D3002	407 007 9904	DIODE GMA01
OR	407 012 4406	DIODE 1SS133
D3003	407 100 6909	DIODE AG01
OR	407 198 2401	DIODE SFT14
D3401	407 100 0006	ZENER DIODE MTZJ33C
D3501	407 007 9904	DIODE GMA01
D3501	407 012 4406	DIODE 1SS133
D3502	407 007 9904	DIODE GMA01
OR	407 012 4406	DIODE 1SS133
D5001	407 197 6509	DIODE DB155G-S
OR	407 104 5304	DIODE S1WB(A)60
D5010	407 198 2401	DIODE SFT14
OR	407 100 6909	DIODE AG01
D5011	407 198 2401	DIODE SFT14

LOCATION	PARTS NO.	DESCRIPTION
D5011	407 100 6909	DIODE AG01
D5012	407 063 8903	ZENER DIODE MTZJ5.6C
D5013	⚠ 407 212 4602	PHOTO COUPLE ON3171RLF2
OR	⚠ 407 169 5608	PHOTO COUPLE PC123U2
D5101	408 041 9301	DIODE ERC81-004L37
OR	408 038 5309	DIODE ERC81-004J11
D5102	407 214 1203	DIODE RK306LF014-303
OR	408 041 9806	DIODE ERC81-006L37
D5103	407 078 2705	DIODE 1SS244
D5104	407 198 2401	DIODE SFT14
OR	407 100 6909	DIODE AG01
D5105	407 198 2401	DIODE SFT14
OR	407 100 6909	DIODE AG01
D5107	407 063 8903	ZENER DIODE MTZJ5.6C
D5108	407 063 8903	ZENER DIODE MTZJ5.6C
D5109	407 063 8903	ZENER DIODE MTZJ5.6C
D5110	407 063 8408	ZENER DIODE MTZJ12C
D5111	407 099 5709	ZENER DIODE MTZJ6.8C
D5112	407 091 6902	DIODE ERA38-04
D5113	407 091 6902	DIODE ERA38-04
D5115	407 078 2705	DIODE 1SS244
D5116	407 055 4708	ZENER DIODE RD24MB1
OR	407 055 4807	ZENER DIODE RD24M-B2
OR	407 120 7108	ZENER DIODE RD24MB3
D5117	407 063 8903	ZENER DIODE MTZJ5.6C
D5118	407 120 5807	DIODE AK04
OR	407 160 9100	DIODE ERA83-004
D5119	407 150 7703	DIODE RB441Q
D5120	407 150 7703	DIODE RB441Q
D5124	407 099 7109	ZENER DIODE MTZJ15C
D5125	407 099 5402	ZENER DIODE MTZJ6.2B
D7017	407 007 9904	DIODE GMA01
OR	407 012 4406	DIODE 1SS133
D7018	407 007 9904	DIODE GMA01
OR	407 012 4406	DIODE 1SS133
D7019	407 007 9904	DIODE GMA01
OR	407 012 4406	DIODE 1SS133
D7029	408 039 9306	LED SLZ-381B-30H-AB,EXCEPT VHR-H800EV
OR	408 040 6202	LED SEL2401GLF44-D,EXCEPT VHR-H800EV
D8001	407 208 6603	PHOTO,DIODE PN205LT.SN
D8002	407 208 6603	PHOTO,DIODE PN205LT.SN
D8003	407 207 0107	LED LN59LT.SL,
	(PHOTO COUPLERS)	
PC801	407 206 6704	PHOTO COUPLE SG-269
PC802	407 206 6704	PHOTO COUPLE SG-269
	(CRYSTAL DEVICES)	
X1002	645 000 6012	OSC,CRYSTAL 4.433619MHZ
OR	645 000 6029	OSC,CRYSTAL 4.433619MHZ
OR	645 002 4436	OSC,CRYSTAL 4.433619MHZ
OR	645 014 8378	OSC,CRYSTAL 4.433619MHZ
X3001	613 109 0972	OSC,CRYSTAL 32KHZ
X3002	645 008 7899	OSC,CRYSTAL 14.31818MHZ
OR	645 035 6605	OSC,CRYSTAL 14.31818MHZ
X7001	645 006 3435	OSC,CERAMIC 4.000MHZ
OR	613 124 2142	RESONATOR,CERAMIC 4MHZ
	(VARIABLE RESISTORS)	
VR301	645 003 5531	VR,SEMI,10K N,VHR-H800EV ONLY
OR	645 001 8770	VR,SEMI,10K N,VHR-H800EV ONLY
	(INDUCTORS)	
L1002	645 002 1510	INDUCTOR,68U J
OR	645 003 8228	INDUCTOR,68U J
L1003	645 001 4611	INDUCTOR,120U J
OR	645 003 7948	INDUCTOR,120U J
L1004	645 006 3886	INDUCTOR,1U K
L1005	645 003 6934	INDUCTOR,100U J
OR	645 003 7634	INDUCTOR,100U J
L1006	645 024 3424	INDUCTOR,-
OR	645 025 0644	INDUCTOR,0.75UH
L2004	645 003 6934	INDUCTOR,100U J
OR	645 003 7634	INDUCTOR,100U J
L2341	645 006 3817	INDUCTOR,0.22U K,VHR-H800EV ONLY
OR	645 010 6651	INDUCTOR,0.22U M,VHR-H800EV ONLY
L2351	645 020 7396	INDUCTOR,180U K,VHR-H800EV ONLY
L2373	645 003 6934	INDUCTOR,100U J
OR	645 003 7634	INDUCTOR,100U J
L2901	645 003 6910	INDUCTOR,10U J
OR	645 003 7627	INDUCTOR,10U J
L3010	645 009 3791	CORE,BEAD
L3061	645 006 3602	INDUCTOR,1.1UH
L3062	645 024 3424	INDUCTOR,-
OR	645 025 0644	INDUCTOR,0.75UH

LOCATION	PARTS NO.	DESCRIPTION
L3064	645 024 3424	INDUCTOR,-
L3064	645 025 0644	INDUCTOR,0.75UH
L3065	645 024 3424	INDUCTOR,-
OR	645 025 0644	INDUCTOR,0.75UH
L3080	645 003 8563	INDUCTOR,56U K,VHR-H800EV ONLY
OR	645 003 8198	INDUCTOR,56U K,VHR-H800EV ONLY
L3301	645 003 6910	INDUCTOR,10U J
OR	645 003 7627	INDUCTOR,10U J
L3307	645 003 7108	INDUCTOR,33U J
OR	645 003 7733	INDUCTOR,33U J
L5001	⚠ 645 040 6041	LINE FILTER
OR	⚠ 645 035 6704	LINE FILTER
OR	⚠ 645 040 7307	LINE FILTER
L5010	645 006 3602	INDUCTOR,1.1UH
OR	645 024 3417	INDUCTOR,2.0UH
L5011	645 009 3791	CORE,BEAD
L5101	645 011 6957	INDUCTOR,10U
OR	645 002 4122	INDUCTOR,10U K
L5102	645 011 6957	INDUCTOR,10U
OR	645 002 4122	INDUCTOR,10U K
	(TRANSFORMERS)	
T2001	645 018 3515	TRANS,OSC,70KHZ
T2351	645 020 8973	TRANS,OSC,70KHZ,VHR-H800EV ONLY
T5001	⚠ 645 040 1183	TRANS,POWER,PULSE
	(CAPACITORS)	
C1001	403 192 5905	CERAMIC 0.1U K 25V
C1002	403 130 3109	CERAMIC 0.047U K 50V
C1003	403 139 2707	ELECT1U M 50V
C1004	403 135 4002	ELECT47U M 6.3V
C1005	403 068 0409	CERAMIC 0.1U Z 25V
C1006	403 069 5601	CERAMIC 0.01U K 50V
C1007	403 020 0409	CERAMIC 27P J 50V
C1008	403 024 7107	CERAMIC 390P J 50V
C1009	403 147 2904	CERAMIC 4.7P C 50V
C1010	403 191 8709	ELECT1U M 50V
C1011	403 014 9203	CERAMIC 180P J 50V
C1012	403 022 8205	CERAMIC 33P J 50V
C1013	403 139 1502	ELECT10U M 16V
C1014	403 139 1700	ELECT33U M 16V
C1015	403 192 5905	CERAMIC 0.1U K 25V, EXCEPT VHR-H800EV
C1016	403 139 2608	ELECT0.47U M 50V
C1017	403 069 5601	CERAMIC 0.01U K 50V
C1018	403 192 5905	CERAMIC 0.1U K 25V,VHR-H780G ONLY
C1019	403 192 5905	CERAMIC 0.1U K 25V
C1020	403 192 5905	CERAMIC 0.1U K 25V
C1022	403 139 2707	ELECT1U M 50V
C1023	403 139 1502	ELECT10U M 16V
C1024	403 139 2707	ELECT1U M 50V
C1025	403 069 5601	CERAMIC 0.01U K 50V
C1026	403 069 5601	CERAMIC 0.01U K 50V
C1027	403 069 5601	CERAMIC 0.01U K 50V
C1028	403 069 5601	CERAMIC 0.01U K 50V
C1029	403 068 0409	CERAMIC 0.1U Z 25V
C1030	403 139 1007	ELECT47U M 6.3V
C1031	403 069 5601	CERAMIC 0.01U K 50V
C1032	403 139 2707	ELECT1U M 50V
C1033	403 069 5601	CERAMIC 0.01U K 50V
C1034	403 139 2707	ELECT1U M 50V
C1035	403 072 1607	CERAMIC 0.022U K 50V
C1036	403 139 1007	ELECT47U M 6.3V
C1037	403 068 0409	CERAMIC 0.1U Z 25V
C1038	403 139 2707	ELECT1U M 50V
C1039	403 072 1607	CERAMIC 0.022U K 50V
C1041	403 130 3109	CERAMIC 0.047U K 50V
C1042	403 072 1607	CERAMIC 0.022U K 50V
C1047	403 014 3409	CERAMIC 18P J 50V
C1048	403 013 3004	CERAMIC 150P J 50V
C1049	403 121 9509	CERAMIC 0.1U Z 50V
C1050	403 026 2803	CERAMIC 47P J 50V
C1051	403 026 2803	CERAMIC 47P J 50V, EXCEPT VHR-H800EV
C1052	403 026 2803	CERAMIC 47P J 50V, VHR-H800EV,VHR-H780G
C1053	403 135 4101	ELECT470U M 6.3V,EXCEPT VHR-H800EV
C1055	403 069 5601	CERAMIC 0.01U K 50V
C1056	403 192 5905	CERAMIC 0.1U K 25V,VHR-H800EV ONLY
C1059	403 130 3109	CERAMIC 0.047U K 50V
C1060	403 068 0409	CERAMIC 0.1U Z 25V
C1062	403 068 0409	CERAMIC 0.1U Z 25V
C1802	403 163 7907	ELECT47U M 6.3V
C1803	403 068 0409	CERAMIC 0.1U Z 25V
C1804	403 191 8709	ELECT1U M 50V
C1805	403 069 5601	CERAMIC 0.01U K 50V
C1806	403 069 5601	CERAMIC 0.01U K 50V
C1807	403 069 5601	CERAMIC 0.01U K 50V
C1808	403 022 8205	CERAMIC 33P J 50V
C1809	403 022 8205	CERAMIC 33P J 50V
C1810	403 022 8205	CERAMIC 33P J 50V
C1811	403 022 8205	CERAMIC 33P J 50V
C2001	403 068 0409	CERAMIC 0.1U Z 25V
C2002	403 135 4002	ELECT47U M 6.3V
C2003	403 068 0409	CERAMIC 0.1U Z 25V
C2004	403 135 3708	ELECT33U M 6.3V
C2006	403 135 3708	ELECT33U M 6.3V
C2008	403 074 7607	CERAMIC 5600P K 50V
C2009	403 121 3507	ELECT4.7U M 50V
C2010	403 068 0409	CERAMIC 0.1U Z 25V
C2011	403 135 4002	ELECT47U M 6.3V
C2012	403 081 3302	POLYPRO 0.022U J 100V
C2013	403 069 5601	CERAMIC 0.01U K 50V
C2014	403 073 1200	CERAMIC 0.033U K 50V
C2015	403 163 7907	ELECT47U M 6.3V
C2016	403 139 2707	ELECT1U M 50V
C2017	403 070 6703	CERAMIC 0.012U K 50V,VHR-H800EV ONLY
C2017	403 070 8806	CERAMIC 1500P K 50V, EXCEPT VHR-H800EV
C2018	403 068 0409	CERAMIC 0.1U Z 25V,VHR-H800EV ONLY
C2019	403 069 1702	CERAMIC 1000P K 50V
C2020	403 069 5601	CERAMIC 0.01U K 50V
C2021	403 189 2405	ELECT10U M 16V
C2022	403 167 7002	ELECT4.7U M 50V
C2023	403 069 1702	CERAMIC 1000P K 50V
C2301	403 107 9905	ELECT10U M 16V
C2302	403 150 6500	ELECT22U M 16V
C2303	403 121 3507	ELECT4.7U M 50V
C2304	403 121 3507	ELECT4.7U M 50V
C2305	403 134 5901	ELECT33U M 16V
C2306	403 189 2405	ELECT10U M 16V
C2307	403 189 2405	ELECT10U M 16V
C2308	403 107 9905	ELECT10U M 16V
C2309	403 107 9905	ELECT10U M 16V
C2310	403 134 5901	ELECT33U M 16V
C2311	403 107 9905	ELECT10U M 16V,EXCEPT VHR-H800EV
C2312	403 135 4002	ELECT47U M 6.3V
C2313	403 107 9905	ELECT10U M 16V,EXCEPT VHR-H800EV
C2314	403 107 9905	ELECT10U M 16V
C2316	403 134 9602	ELECT47U M 16V
C2318	403 107 9905	ELECT10U M 16V
C2320	403 121 2401	ELECT22U M 16V
C2322	403 107 9905	ELECT10U M 16V
C2323	403 130 3109	CERAMIC 0.047U K 50V
C2324	403 070 9803	CERAMIC 0.015U K 50V
C2327	403 130 3109	CERAMIC 0.047U K 50V
C2328	403 070 9803	CERAMIC 0.015U K 50V
C2330	403 024 2102	CERAMIC 39P J 50V
C2331	403 024 2102	CERAMIC 39P J 50V
C2341	403 013 3004	CERAMIC 150P J 50V,VHR-H800EV ONLY
C2351	403 068 0409	CERAMIC 0.1U Z 25V
C2352	403 134 9602	ELECT47U M 16V,VHR-H800EV ONLY
C2353	403 001 1906	CERAMIC 0.01U M 16V
C2354	403 069 5601	CERAMIC 0.01U K 50V, VHR-H800EV ONLY
C2355	403 068 0409	CERAMIC 0.1U Z 25V
C2356	403 069 5601	CERAMIC 0.01U K 50V, VHR-H800EV ONLY
C2357	403 192 5905	CERAMIC 0.1U K 25V
C2358	403 081 7409	POLYPRO 0.033U J 100V,VHR-H800EV ONLY
C2361	403 069 1702	CERAMIC 1000P K 50V, VHR-H800EV,VHR-H780G
C2362	403 069 1702	CERAMIC 1000P K 50V, VHR-H800EV,VHR-H780G
C2363	403 109 6308	ELECT1U M 50V
C2372	403 071 8102	CERAMIC 2200P K 50V
C2373	403 107 9905	ELECT10U M 16V, EXCEPT VHR-H760G,VHR-H780G
C2901	403 193 7601	ELECT220U M 6.3V
C2921	403 192 5905	CERAMIC 0.1U K 25V
C2922	403 069 5601	CERAMIC 0.01U K 50V
C2923	403 069 5601	CERAMIC 0.01U K 50V
C2924	403 068 0409	CERAMIC 0.1U Z 25V
C2925	403 192 5905	CERAMIC 0.1U K 25V

LOCATION	PARTS NO.	DESCRIPTION
C2926	403 069 5601	CERAMIC 0.01U K 50V
C2929	403 269 5906	CERAMIC 0.22U K 16V
C2930	403 070 9803	CERAMIC 0.015U K 50V
C3001	403 008 7505	CERAMIC 10P D 50V
C3002	403 008 7505	CERAMIC 10P D 50V
C3003	403 018 0503	CERAMIC 22P J 50V
C3004	403 014 3409	CERAMIC 18P J 50V
C3005	403 069 5601	CERAMIC 0.01U K 50V
C3006	403 069 5601	CERAMIC 0.01U K 50V
C3008	403 189 2405	ELECT10U M 16V
C3011	403 069 5601	CERAMIC 0.01U K 50V
C3013	403 069 5601	CERAMIC 0.01U K 50V
C3014	403 069 5601	CERAMIC 0.01U K 50V
C3015	403 135 3807	ELECT330U M 6.3V
C3016	403 069 5601	CERAMIC 0.01U K 50V
C3017	403 333 1001	DL-ELECT 0.1F Z 5.5V
C3018	403 163 8409	ELECT47U M 16V
C3019	403 069 0309	CERAMIC 1000P J 50V
C3020	403 069 5601	CERAMIC 0.01U K 50V
C3025	403 028 4102	CERAMIC 56P J 50V
C3026	403 028 4102	CERAMIC 56P J 50V
C3027	403 068 0409	CERAMIC 0.1U Z 25V
C3037	403 069 5601	CERAMIC 0.01U K 50V
C3040	403 191 8808	ELECT2.2U M 50V
C3041	403 068 0409	CERAMIC 0.1U Z 25V
C3042	403 107 9905	ELECT10U M 16V
C3043	403 010 1102	CERAMIC 1000P J 50V
C3044	403 139 1502	ELECT10U M 16V
C3045	403 010 1102	CERAMIC 1000P J 50V
C3059	403 069 5601	CERAMIC 0.01U K 50V
C3061	403 068 0409	CERAMIC 0.1U Z 25V
C3064	403 086 2805	NP-ELECT 1U M 50V
C3065	403 139 1502	ELECT10U M 16V
C3066	403 193 7809	ELECT100U M 16V
C3067	403 068 0409	CERAMIC 0.1U Z 25V
C3068	403 010 1102	CERAMIC 1000P J 50V
C3080	403 010 1102	CERAMIC 1000P J 50V, VHR-H800EV ONLY
C3081	403 192 5905	CERAMIC 0.1U K 25V,VHR-H800EV ONLY
C3082	403 192 5905	CERAMIC 0.1U K 25V,VHR-H800EV ONLY
C3083	403 135 4002	ELECT47U M 6.3V,VHR-H800EV ONLY
C3084	403 068 0409	CERAMIC 0.1U Z 25V,VHR-H800EV ONLY
C3085	403 068 8801	CERAMIC 100P J 50V
C3301	403 107 9905	ELECT10U M 16V
C3302	403 107 9905	ELECT10U M 16V,EXCEPT VHR-H780IR
C3302	403 134 8100	ELECT100U M 6.3V,VHR-H780IR ONLY
C3305	403 026 2803	CERAMIC 47P J 50V
C3309	403 070 2606	CERAMIC 0.1U Z 50V
C3310	403 070 2606	CERAMIC 0.1U Z 50V
C3313	403 068 3608	CERAMIC 0.033U Z 25V, EXCEPT VHR-H760G,VHR-H780G
C3314	403 107 9905	ELECT10U M 16V,EXCEPT VHR-H800EV
C3314	403 139 1502	ELECT10U M 16V,VHR-H800EV ONLY
C3316	403 121 3507	ELECT4.7U M 50V, EXCEPT VHR-H760G,VHR-H780G
C3317	403 009 5708	CERAMIC 100P J 50V
C3318	403 011 4904	CERAMIC 120P J 50V
C3319	403 070 2606	CERAMIC 0.1U Z 50V
C3320	403 030 6903	CERAMIC 68P J 50V
C3321	403 009 5708	CERAMIC 100P J 50V
C3324	403 068 0409	CERAMIC 0.1U Z 25V
C3325	403 068 0409	CERAMIC 0.1U Z 25V
C3326	403 009 5708	CERAMIC 100P J 50V
C3327	403 009 5708	CERAMIC 100P J 50V
C3328	403 009 5708	CERAMIC 100P J 50V
C3329	403 009 5708	CERAMIC 100P J 50V
C3330	403 068 0409	CERAMIC 0.1U Z 25V
C3335	403 008 7505	CERAMIC 10P D 50V
C3404	403 193 8905	ELECT22U M 50V
C3502	403 069 5601	CERAMIC 0.01U K 50V
C3503	403 018 7403	CERAMIC 220P J 50V
C3504	403 069 5601	CERAMIC 0.01U K 50V
C3505	403 086 2805	NP-ELECT 1U M 50V,VHR-H800EV ONLY
C3505	403 139 2707	ELECT1U M 50V,EXCEPT VHR-H800EV
C3506	403 139 1205	ELECT22U M 10V
C3507	403 193 7601	ELECT220U M 6.3V
C3508	403 162 1807	ELECT22U M 10V
C3510	403 069 5601	CERAMIC 0.01U K 50V
C3513	403 069 1702	CERAMIC 1000P K 50V
C3514	403 073 4201	CERAMIC 3900P K 50V
C3516	403 068 0409	CERAMIC 0.1U Z 25V
C3517	403 193 7601	ELECT220U M 6.3V
C3519	403 121 9509	CERAMIC 0.1U Z 50V
C3520	403 068 6203	CERAMIC 0.068U Z 25V
C3521	403 174 5909	CERAMIC 0.022U Z 25V
C3522	403 069 5601	CERAMIC 0.01U K 50V
C3524	403 010 1102	CERAMIC 1000P J 50V
C3525	403 009 5708	CERAMIC 100P J 50V
C3526	403 071 8102	CERAMIC 2200P K 50V
C3527	403 069 5601	CERAMIC 0.01U K 50V
C3528	403 163 8409	ELECT47U M 16V
C3530	403 068 0409	CERAMIC 0.1U Z 25V
C3531	403 068 0409	CERAMIC 0.1U Z 25V
C3541	403 075 5305	CERAMIC 8200P K 50V
C5001	⚠ 404 082 6804	MT-POLYEST 0.068U M 250V
C5002	⚠ 404 082 6804	MT-POLYEST 0.068U M 250V
C5005	⚠ 404 074 2104	CERAMIC 1000P M 250V
C5007	⚠ 404 074 2104	CERAMIC 1000P M 250V
C5010	403 249 0204	ELECT47U M 400V
C5011	403 061 8303	POLYESTER 4700P K 50V
C5012	403 247 3702	CERAMIC 3300P K 1K
C5013	403 056 7304	POLYESTER 1000P J 50V
C5022	403 076 0507	CERAMIC 2200P K 500V
C5101	403 314 0900	ELECT470U M 25V
C5102	403 147 9200	ELECT1000U M 6.3V
C5103	403 314 0900	ELECT470U M 25V
C5104	403 314 0900	ELECT470U M 25V
C5105	403 304 9302	ELECT47U M 50V
C5106	403 301 1408	ELECT100U M 50V
C5107	403 301 1507	ELECT220U M 6.3V
C5111	403 107 9905	ELECT10U M 16V
C5112	403 189 2405	ELECT10U M 16V
C5113	403 189 2405	ELECT10U M 16V
C5114	403 107 9905	ELECT10U M 16V
C5115	403 135 7805	ELECT3.3U M 50V
C5116	403 107 9905	ELECT10U M 16V
C5117	403 135 7805	ELECT3.3U M 50V
C5119	403 189 2405	ELECT10U M 16V
C5122	403 192 5905	CERAMIC 0.1U K 25V
C5125	403 192 5905	CERAMIC 0.1U K 25V
C5127	403 192 5905	CERAMIC 0.1U K 25V
C5128	403 193 8103	ELECT47U M 25V
C5129	403 192 5905	CERAMIC 0.1U K 25V
C5135	403 068 0409	CERAMIC 0.1U Z 25V
C7001	403 028 9909	CERAMIC 560P J 50V
C7002	403 028 9909	CERAMIC 560P J 50V
C7003	403 028 9909	CERAMIC 560P J 50V
C7004	403 028 9909	CERAMIC 560P J 50V
C7005	403 167 7002	ELECT4.7U M 50V
C7006	403 068 0409	CERAMIC 0.1U Z 25V
C7701	403 060 7604	POLYESTER 0.033U J 50V
C7702	403 071 8102	CERAMIC 2200P K 50V
C7703	403 256 4608	MT-COMPO 0.33U J 50V
C7704	403 013 3004	CERAMIC 150P J 50V
C7705	403 068 0409	CERAMIC 0.1U Z 25V
C8001	403 068 0409	CERAMIC 0.1U Z 25V
	(RESISTORS)	
R1001	401 038 3702	MT-GLAZE 33K JA 1/10W
R1002	401 037 9309	MT-GLAZE 18K JA 1/10W
R1003	401 037 5608	MT-GLAZE 10K JA 1/10W
R1004	401 037 9309	MT-GLAZE 18K JA 1/10W
R1006	401 037 5400	MT-GLAZE 1K JA 1/10W
R1007	401 038 3504	MT-GLAZE 330 JA 1/10W
R1008	401 038 3504	MT-GLAZE 330 JA 1/10W
R1009	401 038 9001	MT-GLAZE 680 JA 1/10W
R1010	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R1011	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R1012	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R1013	401 038 5003	MT-GLAZE 390 JA 1/10W
R1014	401 037 5400	MT-GLAZE 1K JA 1/10W
R1015	401 037 5707	MT-GLAZE 100K JA 1/10W
R1017	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R1018	401 037 5400	MT-GLAZE 1K JA 1/10W
R1019	401 037 6704	MT-GLAZE 1.2K JA 1/10W
R1020	401 037 5400	MT-GLAZE 1K JA 1/10W
R1021	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1022	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R1025	401 037 5400	MT-GLAZE 1K JA 1/10W
R1026	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R1030	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1031	401 037 5608	MT-GLAZE 10K JA 1/10W
R1032	401 037 5806	MT-GLAZE 1M JA 1/10W

LOCATION	PARTS NO.	DESCRIPTION
R1034	401 037 5202	MT-GLAZE 100 JA 1/10W
R1035	401 037 8005	MT-GLAZE 15K JA 1/10W
R1039	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1040	401 037 5202	MT-GLAZE 100 JA 1/10W
R1041	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R1042	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R1044	401 037 6704	MT-GLAZE 1.2K JA 1/10W
R1045	401 037 6704	MT-GLAZE 1.2K JA 1/10W
R1046	401 037 5400	MT-GLAZE 1K JA 1/10W
R1047	401 038 5003	MT-GLAZE 390 JA 1/10W, EXCEPT VHR-H800EV
R1048	401 018 2701	CARBON 330 JA 1/4W, EXCEPT VHR-H800EV
R1049	401 018 2701	CARBON 330 JA 1/4W, EXCEPT VHR-H800EV
R1050	401 038 7700	MT-GLAZE 5.6K JA 1/10W, EXCEPT VHR-H800EV
R1051	401 038 7700	MT-GLAZE 5.6K JA 1/10W, EXCEPT VHR-H800EV
R1052	401 012 4404	CARBON 100 JA 1/4W, EXCEPT VHR-H800EV
R1053	401 037 5608	MT-GLAZE 10K JA 1/10W, EXCEPT VHR-H800EV
R1054	401 037 5608	MT-GLAZE 10K JA 1/10W, EXCEPT VHR-H800EV
R1055	401 038 6406	MT-GLAZE 4.7K JA 1/10W, EXCEPT VHR-H800EV
R1056	401 019 0904	CARBON 390 JA 1/4W, EXCEPT VHR-H800EV
R1057	401 037 5004	MT-GLAZE 0.000 ZA 1/10W,VHR-H800EV ONLY
R1057	401 038 9506	MT-GLAZE 75 JA 1/10W, EXCEPT VHR-H800EV
R1059	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1061	401 038 0800	MT-GLAZE 22K JA 1/10W
R1062	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1063	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R1064	401 038 0800	MT-GLAZE 22K JA 1/10W
R1067	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV ONLY
R1068	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV ONLY
R1072	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1073	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1805	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1806	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1808	401 037 5608	MT-GLAZE 10K JA 1/10W
R1809	401 038 2200	MT-GLAZE 27K JA 1/10W
R1810	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R1811	401 038 2002	MT-GLAZE 270 JA 1/10W
R1812	401 038 2002	MT-GLAZE 270 JA 1/10W
R2005	401 038 3702	MT-GLAZE 33K JA 1/10W
R2006	401 037 5608	MT-GLAZE 10K JA 1/10W
R2007	401 038 3900	MT-GLAZE 3.3M JA 1/10W
R2008	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R2009	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R2011	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R2012	401 038 0800	MT-GLAZE 22K JA 1/10W
R2013	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R2014	401 038 7601	MT-GLAZE 560 JA 1/10W
R2015	401 038 6208	MT-GLAZE 47 JA 1/10W
R2016	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R2017	401 011 8809	CARBON 1 JA 1/4W
R2018	401 037 5004	MT-GLAZE 0.000 ZA 1/10W, EXCEPT VHR-H800EV
R2018	401 089 8602	MT-GLAZE 4.7M JA 1/10W,VHR-H800EV ONLY
R2019	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R2020	401 037 5400	MT-GLAZE 1K JA 1/10W
R2021	401 037 5608	MT-GLAZE 10K JA 1/10W
R2022	401 038 0800	MT-GLAZE 22K JA 1/10W
R2023	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV ONLY
R2023	401 037 6803	MT-GLAZE 12K JA 1/10W, EXCEPT VHR-H800EV
R2024	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R2025	401 037 6803	MT-GLAZE 12K JA 1/10W
R2026	401 038 3801	MT-GLAZE 330K JA 1/10W
R2027	401 038 1203	MT-GLAZE 240 JA 1/10W
R2028	401 037 7305	MT-GLAZE 1.3K JA 1/10W
R2029	401 038 2200	MT-GLAZE 27K JA 1/10W
R2031	401 038 7700	MT-GLAZE 5.6K JA 1/10W,VHR-H800EV ONLY
R2032	401 037 5004	MT-GLAZE 0.000 ZA 1/10W,VHR-H800EV ONLY
R2033	401 037 5608	MT-GLAZE 10K JA 1/10W, VHR-H800EV ONLY
R2034	401 037 5004	MT-GLAZE 0.000 ZA 1/10W,VHR-H800EV ONLY
R2301	401 038 6505	MT-GLAZE 47K JA 1/10W
R2302	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R2303	401 038 2200	MT-GLAZE 27K JA 1/10W
R2304	401 038 6505	MT-GLAZE 47K JA 1/10W, VHR-H800EV,VHR-H780G
R2305	401 038 6505	MT-GLAZE 47K JA 1/10W
R2306	401 038 6505	MT-GLAZE 47K JA 1/10W, VHR-H800EV,VHR-H780G
R2307	401 038 2200	MT-GLAZE 27K JA 1/10W
R2308	401 038 7700	MT-GLAZE 5.6K JA 1/10W, VHR-H800EV,VHR-H780G
R2309	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R2310	401 038 7700	MT-GLAZE 5.6K JA 1/10W, VHR-H800EV,VHR-H780G
R2311	401 038 6406	MT-GLAZE 4.7K JA 1/10W, EXCEPT VHR-H760G,VHR-H780G
R2311	401 038 7700	MT-GLAZE 5.6K JA 1/10W, VHR-H760G,VHR-H780G
R2312	401 038 5003	MT-GLAZE 390 JA 1/10W
R2313	401 038 6406	MT-GLAZE 4.7K JA 1/10W, EXCEPT VHR-H760G,VHR-H780G
R2313	401 038 7700	MT-GLAZE 5.6K JA 1/10W, VHR-H760G,VHR-H780G
R2314	401 038 5003	MT-GLAZE 390 JA 1/10W
R2317	401 038 0909	MT-GLAZE 220K JA 1/10W
R2318	401 038 0909	MT-GLAZE 220K JA 1/10W
R2321	401 038 6505	MT-GLAZE 47K JA 1/10W, VHR-H800EV ONLY
R2322	401 038 7700	MT-GLAZE 5.6K JA 1/10W,VHR-H800EV ONLY
R2323	401 038 6505	MT-GLAZE 47K JA 1/10W, VHR-H800EV ONLY
R2324	401 038 7700	MT-GLAZE 5.6K JA 1/10W,VHR-H800EV ONLY
R2331	401 037 6704	MT-GLAZE 1.2K JA 1/10W
R2332	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R2333	401 017 2702	CARBON 27K JA 1/4W, EXCEPT VHR-H760G,VHR-H780G
R2334	401 038 7700	MT-GLAZE 5.6K JA 1/10W, EXCEPT VHR-H760G,VHR-H780G
R2335	401 037 5400	MT-GLAZE 1K JA 1/10W
R2336	401 038 7106	MT-GLAZE 510 JA 1/10W
R2337	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R2338	401 038 7106	MT-GLAZE 510 JA 1/10W
R2339	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R2340	401 038 3702	MT-GLAZE 33K JA 1/10W
R2351	401 018 1506	CARBON 33 JA 1/4W,VHR-H800EV ONLY
R2352	401 038 6208	MT-GLAZE 47 JA 1/10W,VHR-H800EV ONLY
R2353	401 037 8005	MT-GLAZE 15K JA 1/10W, VHR-H800EV ONLY
R2354	401 037 5103	MT-GLAZE 10 JA 1/10W,VHR-H800EV ONLY
R2355	401 038 0800	MT-GLAZE 22K JA 1/10W, VHR-H800EV ONLY
R2356	401 038 3702	MT-GLAZE 33K JA 1/10W, VHR-H800EV ONLY
R2361	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV,VHR-H780G
R2362	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV,VHR-H780G
R2379	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R2380	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R2381	401 037 5400	MT-GLAZE 1K JA 1/10W
R2385	401 037 6902	MT-GLAZE 120K JA 1/10W
R3001	⚠ 402 067 7402	FUSIBLE RES 3.3 JA 1/2W
R3002	401 038 0800	MT-GLAZE 22K JA 1/10W
R3003	401 038 0800	MT-GLAZE 22K JA 1/10W
R3004	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R3005	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R3006	401 038 3009	MT-GLAZE 3K JA 1/10W
R3008	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3009	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3010	401 038 3801	MT-GLAZE 330K JA 1/10W
R3011	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3012	401 038 0602	MT-GLAZE 220 JA 1/10W
R3013	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3014	401 037 8005	MT-GLAZE 15K JA 1/10W
R3015	401 037 8005	MT-GLAZE 15K JA 1/10W
R3016	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R3017	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3018	401 037 5608	MT-GLAZE 10K JA 1/10W

LOCATION	PARTS NO.	DESCRIPTION
R3019	401 037 5707	MT-GLAZE 100K JA 1/10W
R3021	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3022	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R3023	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R3024	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R3029	401 037 5400	MT-GLAZE 1K JA 1/10W
R3032	401 038 5300	MT-GLAZE 39K JA 1/10W
R3035	401 038 0800	MT-GLAZE 22K JA 1/10W
R3036	401 038 0800	MT-GLAZE 22K JA 1/10W
R3037	401 037 5400	MT-GLAZE 1K JA 1/10W, EXCEPT VHR-H760G,VHR-H780G
R3038	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3039	401 037 5400	MT-GLAZE 1K JA 1/10W
R3040	401 037 5400	MT-GLAZE 1K JA 1/10W
R3043	401 037 5004	MT-GLAZE 0.000 ZA 1/10W,VHR-H800EV ONLY
R3044	401 037 5004	MT-GLAZE 0.000 ZA 1/10W,VHR-H800EV ONLY
R3064	401 038 0800	MT-GLAZE 22K JA 1/10W
R3065	401 037 8203	MT-GLAZE 1.5M JA 1/10W
R3066	401 038 3702	MT-GLAZE 33K JA 1/10W
R3067	401 038 6505	MT-GLAZE 47K JA 1/10W
R3068	401 038 0800	MT-GLAZE 22K JA 1/10W
R3069	401 037 8203	MT-GLAZE 1.5M JA 1/10W
R3070	401 038 3702	MT-GLAZE 33K JA 1/10W
R3071	401 038 6505	MT-GLAZE 47K JA 1/10W
R3072	401 037 7800	MT-GLAZE 150 JA 1/10W
R3073	401 037 8104	MT-GLAZE 150K JA 1/10W
R3074	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R3075	401 038 3504	MT-GLAZE 330 JA 1/10W
R3076	401 037 5400	MT-GLAZE 1K JA 1/10W
R3077	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R3078	401 012 4404	CARBON 100 JA 1/4W
R3080	401 038 0602	MT-GLAZE 220 JA 1/10W, VHR-H800EV ONLY
R3081	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV ONLY
R3082	401 037 5608	MT-GLAZE 10K JA 1/10W, VHR-H800EV ONLY
R3083	401 037 5608	MT-GLAZE 10K JA 1/10W, VHR-H800EV ONLY
R3084	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV ONLY
R3085	401 038 0701	MT-GLAZE 2.2K JA 1/10W,VHR-H800EV ONLY
R3086	401 038 6406	MT-GLAZE 4.7K JA 1/10W,VHR-H800EV ONLY
R3089	401 037 5707	MT-GLAZE 100K JA 1/10W,VHR-H800EV ONLY
R3090	401 038 3603	MT-GLAZE 3.3K JA 1/10W,VHR-H800EV ONLY
R3091	401 038 3603	MT-GLAZE 3.3K JA 1/10W,VHR-H800EV ONLY
R3092	401 037 6704	MT-GLAZE 1.2K JA 1/10W,VHR-H800EV ONLY
R3093	401 020 2805	CARBON 47K JA 1/4W, VHR-H800EV ONLY
R3094	401 037 9309	MT-GLAZE 18K JA 1/10W
R3095	401 037 5400	MT-GLAZE 1K JA 1/10W
R3301	401 038 5003	MT-GLAZE 390 JA 1/10W
R3302	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R3309	⚠ 402 078 2908	FUSIBLE RES 680 GA 1/4W
R3310	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV ONLY
R3311	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV ONLY
R3312	401 037 5004	MT-GLAZE 0.000 ZA 1/10W, VHR-H760G,VHR-H780G
R3312	401 038 3603	MT-GLAZE 3.3K JA 1/10W, EXCEPT VHR-H760G,VHR-H780G
R3313	401 038 6406	MT-GLAZE 4.7K JA 1/10W, EXCEPT VHR-H760G,VHR-H780G
R3314	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV ONLY
R3315	401 038 0701	MT-GLAZE 2.2K JA 1/10W, VHR-H760G,VHR-H780G
R3316	401 038 0701	MT-GLAZE 2.2K JA 1/10W, VHR-H760G,VHR-H780G
R3501	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R3502	401 038 0909	MT-GLAZE 220K JA 1/10W
R3503	401 037 5400	MT-GLAZE 1K JA 1/10W
R3509	401 037 5608	MT-GLAZE 10K JA 1/10W
R3510	401 038 9001	MT-GLAZE 680 JA 1/10W
R3511	401 038 9001	MT-GLAZE 680 JA 1/10W
R3514	401 038 3702	MT-GLAZE 33K JA 1/10W
R3515	401 037 5608	MT-GLAZE 10K JA 1/10W
R3516	401 038 3702	MT-GLAZE 33K JA 1/10W
R3517	401 037 5608	MT-GLAZE 10K JA 1/10W
R3519	401 037 5400	MT-GLAZE 1K JA 1/10W
R3520	401 037 5707	MT-GLAZE 100K JA 1/10W
R3521	401 037 5400	MT-GLAZE 1K JA 1/10W
R3522	401 038 0602	MT-GLAZE 220 JA 1/10W
R3523	401 037 5202	MT-GLAZE 100 JA 1/10W
R3524	401 037 5400	MT-GLAZE 1K JA 1/10W
R3525	401 038 5904	MT-GLAZE 4.3K JA 1/10W
R3526	401 037 5400	MT-GLAZE 1K JA 1/10W
R3527	401 038 5904	MT-GLAZE 4.3K JA 1/10W
R3528	401 037 5400	MT-GLAZE 1K JA 1/10W
R3529	401 038 5904	MT-GLAZE 4.3K JA 1/10W
R3531	401 037 5608	MT-GLAZE 10K JA 1/10W
R3532	401 038 0800	MT-GLAZE 22K JA 1/10W
R3533	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R3535	401 037 5608	MT-GLAZE 10K JA 1/10W, EXCEPT VHR-H800EV
R3537	401 037 5608	MT-GLAZE 10K JA 1/10W
R3539	401 012 5609	CARBON 1K JA 1/4W
R3542	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R3543	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R5001	402 013 9108	SOLID 2.7M KB 1/2W
R5002	401 014 7106	CARBON 1.5M JA 1/4W
R5003	401 014 7106	CARBON 1.5M JA 1/4W
R5010	401 037 9309	MT-GLAZE 18K JA 1/10W
R5011	401 014 6000	CARBON 150K JA 1/4W
R5012	401 014 6000	CARBON 150K JA 1/4W
R5013	401 012 8006	CARBON 100K JA 1/4W
R5014	401 037 8005	MT-GLAZE 15K JA 1/10W
R5015	401 037 5400	MT-GLAZE 1K JA 1/10W
R5017	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R5101	401 038 5003	MT-GLAZE 390 JA 1/10W
R5102	401 037 7800	MT-GLAZE 150 JA 1/10W
R5103	401 038 7601	MT-GLAZE 560 JA 1/10W
R5104	401 012 6903	CARBON 10K JA 1/4W
R5105	401 016 2505	CARBON 220 JA 1/4W
R5106	401 020 0702	CARBON 470 JA 1/4W
R5108	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R5109	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R5110	⚠ 402 071 3100	FUSIBLE RES 27 JA 1/4W
R5111	401 038 7601	MT-GLAZE 560 JA 1/10W
R5113	401 037 5608	MT-GLAZE 10K JA 1/10W
R5116	401 012 5609	CARBON 1K JA 1/4W
R5117	401 012 5609	CARBON 1K JA 1/4W
R5119	401 038 6505	MT-GLAZE 47K JA 1/10W
R5120	⚠ 402 004 1906	FUSIBLE RES 47 JA 1/4W
R5122	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R5123	401 039 0304	MT-GLAZE 820 JA 1/10W
R5126	401 037 5400	MT-GLAZE 1K JA 1/10W
R5127	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R5135	401 037 5400	MT-GLAZE 1K JA 1/10W
R7001	401 037 5608	MT-GLAZE 10K JA 1/10W
R7002	401 037 5608	MT-GLAZE 10K JA 1/10W
R7003	401 037 5608	MT-GLAZE 10K JA 1/10W
R7004	401 037 5608	MT-GLAZE 10K JA 1/10W
R7005	401 038 7601	MT-GLAZE 560 JA 1/10W
R7006	401 038 7601	MT-GLAZE 560 JA 1/10W
R7007	401 038 7601	MT-GLAZE 560 JA 1/10W
R7008	401 038 7601	MT-GLAZE 560 JA 1/10W
R7009	401 038 9308	MT-GLAZE 68K JA 1/10W
R7010	401 038 9308	MT-GLAZE 68K JA 1/10W
R7011	401 038 9308	MT-GLAZE 68K JA 1/10W
R7012	401 038 9308	MT-GLAZE 68K JA 1/10W
R7013	401 038 9308	MT-GLAZE 68K JA 1/10W
R7018	401 016 2505	CARBON 220 JA 1/4W, EXCEPT VHR-H800EV
R7701	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R7702	401 013 7909	CARBON 1.2M JA 1/4W
R7703	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R7704	401 013 7909	CARBON 1.2M JA 1/4W
R7705	401 012 9201	CARBON 1M JA 1/4W
R7706	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R7707	401 037 5707	MT-GLAZE 100K JA 1/10W
R7708	401 037 5608	MT-GLAZE 10K JA 1/10W
R8003	401 017 0708	CARBON 270 JA 1/4W
R8004	401 014 2804	CARBON 150 JA 1/4W
R8005	401 017 0708	CARBON 270 JA 1/4W
	(JUMPERS)	
	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
	(SWITCHES)	
S7001	645 008 8049	SWITCH,PUSH 1P-1T, REC, EXCEPT VHR-H800EV
OR	645 006 2797	SWITCH,PUSH 1P-1T, REC, EXCEPT VHR-H800EV

LOCATION	PARTS NO.	DESCRIPTION
S7001	645 001 9777	SWITCH,PUSH 1P-1T, REC, EXCEPT VHR-H800EV
S7002	645 008 8049	SWITCH,PUSH 1P-1T, CH UP
OR	645 006 2797	SWITCH,PUSH 1P-1T, CH UP
OR	645 001 9777	SWITCH,PUSH 1P-1T, CH UP
S7003	645 008 8049	SWITCH,PUSH 1P-1T, FF,EXCEPT VHR-H800EV
OR	645 006 2797	SWITCH,PUSH 1P-1T, FF,EXCEPT VHR-H800EV
OR	645 001 9777	SWITCH,PUSH 1P-1T, FF,EXCEPT VHR-H800EV
S7004	645 008 8049	SWITCH,PUSH 1P-1T, CH DOWN
OR	645 006 2797	SWITCH,PUSH 1P-1T, CH DOWN
OR	645 001 9777	SWITCH,PUSH 1P-1T, CH DOWN
S7005	645 008 8049	SWITCH,PUSH 1P-1T, REW, EXCEPT VHR-H800EV
OR	645 006 2797	SWITCH,PUSH 1P-1T, REW, EXCEPT VHR-H800EV
OR	645 001 9777	SWITCH,PUSH 1P-1T, REW, EXCEPT VHR-H800EV
S7006	645 008 8063	SWITCH,PUSH 1P-1T, POWER, EXCEPT VHR-H800EV,VHR-H760G
S7006	645 008 8049	SWITCH,PUSH 1P-1T, POWER, VHR-H760G ONLY
OR	645 006 2797	SWITCH,PUSH 1P-1T, POWER, VHR-H760G ONLY
OR	645 001 9777	SWITCH,PUSH 1P-1T, POWER, VHR-H760G ONLY
S7007	645 008 8049	SWITCH,PUSH 1P-1T, PAUSE, EXCEPT VHR-H800EV
OR	645 006 2797	SWITCH,PUSH 1P-1T, PAUSE, EXCEPT VHR-H800EV
OR	645 001 9777	SWITCH,PUSH 1P-1T, PAUSE, EXCEPT VHR-H800EV
S7008	645 008 8049	SWITCH,PUSH 1P-1T, PLAY, EXCEPT VHR-H800EV
OR	645 006 2797	SWITCH,PUSH 1P-1T, PLAY, EXCEPT VHR-H800EV
OR	645 001 9777	SWITCH,PUSH 1P-1T, PLAY, EXCEPT VHR-H800EV
S7010	645 008 8063	SWITCH,PUSH 1P-1T, STOP/EJECT, EXCEPT VHR-H800EV,VHR-H760G
S7010	645 008 8049	SWITCH,PUSH 1P-1T, STOP/EJECT, VHR-H760G ONLY
OR	645 006 2797	SWITCH,PUSH 1P-1T, STOP/EJECT, VHR-H760G ONLY
OR	645 001 9777	SWITCH,PUSH 1P-1T, STOP/EJECT, VHR-H760G ONLY
S8001	645 031 5497	SWITCH,MODE 1P-1T VC, SWITCH MODE
OR	645 029 7076	SWITCH,MODE 1P-1T VC, SWITCH MODE
S8002	645 029 7069	SWITCH,DETECTOR 1P-1T VC, SWITCH EP
	(REMOTE RECEIVERS)	
RR701	645 027 5654	UNIT,IR RECEIVER PACK
	(DISPLAYS)	
A7001	645 031 0096	FLUORESCENT TUBE
OR	645 031 0089	FLUORESCENT TUBE
	(FUSES)	
F5001	⚠ 423 021 8402	FUSE 250V 2.5A
OR	⚠ 423 022 6506	FUSE 250V 2.5A
OR	⚠ 423 025 9900	FUSE 250V 2.5A
	(PROTECTORS)	
PR511	⚠ 645 005 9834	PROTECTOR,IC 1.0A 50V
PR512	⚠ 645 014 2550	PROTECTOR,2A 125V
PR513	⚠ 645 014 2529	PROTECTOR,1.25A 125V
	(JACKS)	
JK231	645 032 8954	JACK,RCA-2 ,VHR-H800EV,VHR-H780G
	(MISCELLANEOUS)	
	613 053 8048	FIXER
	645 008 7677	HOLDER,FUSE,F5001
OR	645 008 7660	HOLDER,FUSE,F5001
OR	645 016 0479	HOLDER,FUSE,F5001
	613 183 5337	HOLDER FL, FL
	613 164 2447	HOLDER FL, FL
	613 183 7553	HOLDER LED, PSLED,EXCEPT VHR-H800EV
	613 189 5775	PAD,VHR-H800EV ONLY
	613 182 3334	HOLDER,LED VC
	613 182 3341	HOLDER,END SENSOR VC

COMPL PWB,TM-1

	613 190 5627	VHR-H800EV ONLY
	(CONNECTORS)	
CN711	645 009 4118	SOCKET,FFC 7P (N.S.P),VHR-H800EV ONLY
CN711	645 011 3857	SOCKET,FFC 7P (N.S.P),VHR-H800EV ONLY
	(SWITCHES)	
S7106	613 093 8596	SW,PUSH, REC,VHR-H800EV ONLY
OR	645 005 1302	SWITCH,PUSH 1P-1T, REC,VHR-H800EV ONLY
OR	645 037 2742	SWITCH,PUSH, REC,VHR-H800EV ONLY
S7111	613 093 8596	SW,PUSH, STOP/EJECT,VHR-H800EV ONLY
OR	645 005 1302	SWITCH,PUSH 1P-1T, STOP/EJECT, VHR-H800EV ONLY
OR	645 037 2742	SWITCH,PUSH, STOP/EJECT, VHR-H800EV ONLY
S7115	613 093 8596	SW,PUSH, PLAY,VHR-H800EV ONLY
OR	645 005 1302	SWITCH,PUSH 1P-1T, PLAY,VHR-H800EV ONLY
OR	645 037 2742	SWITCH,PUSH, PLAY,VHR-H800EV ONLY
S7142	613 093 8596	SW,PUSH, DMSS,VHR-H800EV ONLY
OR	645 005 1302	SWITCH,PUSH 1P-1T, DMSS, VHR-H800EV ONLY
OR	645 037 2742	SWITCH,PUSH, DMSS,VHR-H800EV ONLY
S7143	613 093 8596	SW,PUSH, REW,VHR-H800EV ONLY
OR	645 005 1302	SWITCH,PUSH 1P-1T, REW,VHR-H800EV ONLY
OR	645 037 2742	SWITCH,PUSH, REW,VHR-H800EV ONLY
S7144	613 093 8596	SW,PUSH, FF,VHR-H800EV ONLY
OR	645 005 1302	SWITCH,PUSH 1P-1T, FF,VHR-H800EV ONLY
OR	645 037 2742	SWITCH,PUSH, FF,VHR-H800EV ONLY
S7147	613 093 8596	SW,PUSH, REC LIST DELUX, VHR-H800EV ONLY
OR	645 005 1302	SWITCH,PUSH 1P-1T, REC LIST DELUX, VHR-H800EV ONLY
OR	645 037 2742	SWITCH,PUSH, REC LIST DELUX, VHR-H800EV ONLY

COMPL PWB,TM-2

	613 190 5597	VHR-H800EV ONLY	
	(CONNECTORS)		
CN722	645 003 1755	SOCKET,RIBBON 4P (N.S.P), VHR-H800EV ONLY	
	(DIODES)		
D7201	408 039 4509	LED SLZ-381B-09H-AB-T1, POWER LED, VHR-H800EV ONLY	
OR	408 040 4000	LED SEL2415EMTP6-C, POWER LED, VHR-H800EV ONLY	
OR	408 040 4109	LED SEL2415EMTP6-D, POWER LED, VHR-H800EV ONLY	
	(CAPACITORS)		
C7201	403 018 7403	CERAMIC	220P J 50V,VHR-H800EV ONLY
C7202	403 018 7403	CERAMIC	220P J 50V,VHR-H800EV ONLY
	(RESISTORS)		
R7201	401 012 5609	CARBON	1K JA 1/4W,VHR-H800EV ONLY
R7202	401 012 5609	CARBON	1K JA 1/4W,VHR-H800EV ONLY
R7203	401 022 6702	CARBON	75 JA 1/4W,VHR-H800EV ONLY
R7204	401 014 2804	CARBON	150 JA 1/4W, VHR-H800EV ONLY
	(SWITCHES)		
S7201	645 008 8049	SWITCH,PUSH 1P-1T, POWER, VHR-H800EV ONLY	
OR	645 006 2797	SWITCH,PUSH 1P-1T, POWER, VHR-H800EV ONLY	
OR	645 001 9777	SWITCH,PUSH 1P-1T, POWER, VHR-H800EV ONLY	
OR	645 024 0775	SWITCH,PUSH, POWER,VHR-H800EV ONLY	
	(JACKS)		
JK721	645 025 7735	JACK,RCA-3 ,VHR-H800EV ONLY	

COMPL PWB,TB-1

	613 189 4327	EXCEPT VHR-H800EV,VHR-H780G	
	613 190 5184	VHR-H800EV ONLY	
	613 190 5573	VHR-H780G ONLY	
	(CONNECTORS)		
CN851	645 003 0925	PLUG,11P	(N.S.P),VHR-H800EV ONLY
CN851	645 008 5031	PLUG,8P	(N.S.P),VHR-H780G ONLY
CN851	645 013 4548	PLUG,6P	(N.S.P), EXCEPT VHR-H800EV,VHR-H780G
CN861	645 003 0918	PLUG,9P	(N.S.P),EXCEPT VHR-H800EV
CN861	645 003 0932	PLUG,13P	(N.S.P),VHR-H800EV ONLY
CN871	645 018 7605	SOCKET,RGB 21P	
OR	645 021 1096	SOCKET,RGB 21P	
CN872	645 018 7605	SOCKET,RGB 21P,VHR-H780G ONLY	
OR	645 021 1096	SOCKET,RGB 21P,VHR-H780G ONLY	

LOCATION	PARTS NO.	DESCRIPTION
CN872	645 020 9475	SOCKET,RGB 21P,VHR-H800EV ONLY
OR	645 021 1102	SOCKET,RGB 21P,VHR-H800EV ONLY
	(SEMICONDUCTORS)	
Q8604	405 029 3504	TR DTC144EK,VHR-H800EV ONLY
Q8605	405 002 0308	TR 2SA1037K-R,VHR-H800EV ONLY
OR	405 002 0407	TR 2SA1037K-S,VHR-H800EV ONLY
	(INTEGRATED CIRCUITS)	
IC861	409 432 4806	IC LA7147M-MPB,VHR-H800EV ONLY
	(DIODES)	
D8604	407 012 4406	DIODE 1SS133,VHR-H800EV ONLY
D8605	407 012 4406	DIODE 1SS133,VHR-H800EV ONLY
D8606	407 012 4406	DIODE 1SS133,VHR-H800EV ONLY
D8607	407 012 4406	DIODE 1SS133,VHR-H800EV ONLY
D8608	407 063 8804	ZENER DIODE MTZJ5.6A,VHR-H800EV ONLY
D8609	407 063 8804	ZENER DIODE MTZJ5.6A,VHR-H800EV ONLY
D8610	407 063 8804	ZENER DIODE MTZJ5.6A,VHR-H800EV ONLY
D8611	407 063 8804	ZENER DIODE MTZJ5.6A,VHR-H800EV ONLY
D8612	407 099 7000	ZENER DIODE MTZJ15B,VHR-H800EV ONLY
D8613	407 099 7000	ZENER DIODE MTZJ15B
	(INDUCTORS)	
L8502	645 024 3424	INDUCTOR,-
OR	645 025 0644	INDUCTOR,0.75UH
L8503	645 024 3424	INDUCTOR,-,VHR-H800EV,VHR-H780G
OR	645 025 0644	INDUCTOR,0.75UH,VHR-H800EV,VHR-H780G
	(CAPACITORS)	
C8504	403 018 7403	CERAMIC 220P J 50V
C8508	403 010 1102	CERAMIC 1000P J 50V
C8511	403 010 1102	CERAMIC 1000P J 50V, VHR-H800EV ONLY
C8513	403 018 7403	CERAMIC 220P J 50V, VHR-H800EV,VHR-H780G
C8524	403 018 7403	CERAMIC 220P J 50V
C8528	403 010 1102	CERAMIC 1000P J 50V
C8531	403 010 1102	CERAMIC 1000P J 50V, VHR-H800EV ONLY
C8533	403 018 7403	CERAMIC 220P J 50V, VHR-H800EV,VHR-H780G
C8572	403 189 2405	ELECT 10U M 16V,VHR-H800EV ONLY
C8573	403 189 2405	ELECT 10U M 16V,VHR-H800EV ONLY
C8575	403 189 2405	ELECT 10U M 16V,VHR-H800EV ONLY
C8576	403 191 8709	ELECT 1U M 50V,VHR-H800EV ONLY
C8577	403 163 8409	ELECT 47U M 16V,VHR-H800EV ONLY
C8578	403 189 2405	ELECT 10U M 16V,VHR-H800EV ONLY
C8579	403 191 8709	ELECT 1U M 50V,VHR-H800EV ONLY
C8581	403 191 8709	ELECT 1U M 50V,VHR-H800EV ONLY
C8582	403 191 8709	ELECT 1U M 50V,VHR-H800EV ONLY
C8601	403 191 8709	ELECT 1U M 50V,VHR-H800EV ONLY
C8602	403 191 8709	ELECT 1U M 50V,VHR-H800EV ONLY
C8603	403 026 2803	CERAMIC 47P J 50V,VHR-H800EV ONLY
C8605	403 068 0409	CERAMIC 0.1U Z 25V,VHR-H800EV ONLY
C8606	403 163 8409	ELECT 47U M 16V,VHR-H800EV ONLY
C8607	403 068 0409	CERAMIC 0.1U Z 25V,VHR-H800EV ONLY
C8609	403 135 4101	ELECT 470U M 6.3V,VHR-H800EV ONLY
C8610	403 086 2805	NP-ELECT 1U M 50V,VHR-H800EV ONLY
C8611	403 191 8709	ELECT 1U M 50V,VHR-H800EV ONLY
C8613	403 026 2209	CERAMIC 47P J 50V,VHR-H800EV ONLY
C8614	403 026 2209	CERAMIC 47P J 50V,VHR-H800EV ONLY
C8615	403 163 7907	ELECT 47U M 6.3V,VHR-H800EV ONLY
	(RESISTORS)	
R8502	401 037 5400	MT-GLAZE 1K JA 1/10W
R8504	401 038 9001	MT-GLAZE 680 JA 1/10W
R8505	401 038 0909	MT-GLAZE 220K JA 1/10W,VHR-H800EV ONLY
R8508	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV,VHR-H780G
R8509	401 038 9001	MT-GLAZE 680 JA 1/10W, VHR-H800EV ONLY
R8510	401 038 0909	MT-GLAZE 220K JA 1/10W,VHR-H800EV ONLY
R8522	401 037 5400	MT-GLAZE 1K JA 1/10W
R8524	401 038 9001	MT-GLAZE 680 JA 1/10W
R8525	401 038 0909	MT-GLAZE 220K JA 1/10W,VHR-H800EV ONLY
R8528	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV,VHR-H780G
R8529	401 038 9001	MT-GLAZE 680 JA 1/10W, VHR-H800EV ONLY
R8530	401 038 0909	MT-GLAZE 220K JA 1/10W,VHR-H800EV ONLY
R8591	401 037 5004	MT-GLAZE 0.000 ZA 1/10W, EXCEPT VHR-H800EV
R8591	401 038 0602	MT-GLAZE 220 JA 1/10W, VHR-H800EV ONLY
R8592	401 037 5004	MT-GLAZE 0.000 ZA 1/10W, EXCEPT VHR-H800EV
R8592	401 038 0602	MT-GLAZE 220 JA 1/10W, VHR-H800EV ONLY
R8601	401 038 9506	MT-GLAZE 75 JA 1/10W
R8602	401 038 9506	MT-GLAZE 75 JA 1/10W, VHR-H800EV,VHR-H780G
R8609	401 038 9506	MT-GLAZE 75 JA 1/10W,VHR-H800EV ONLY
R8611	401 018 2701	CARBON 330 JA 1/4W, VHR-H800EV ONLY
R8612	401 014 2804	CARBON 150 JA 1/4W, VHR-H800EV ONLY
R8613	401 014 2804	CARBON 150 JA 1/4W, VHR-H800EV ONLY
R8614	401 037 5202	MT-GLAZE 100 JA 1/10W, VHR-H800EV ONLY
R8615	401 037 5202	MT-GLAZE 100 JA 1/10W, VHR-H800EV ONLY
R8620	401 037 9309	MT-GLAZE 18K JA 1/10W, VHR-H800EV ONLY
R8621	401 038 6406	MT-GLAZE 4.7K JA 1/10W,VHR-H800EV ONLY
R8624	401 038 0701	MT-GLAZE 2.2K JA 1/10W,VHR-H800EV ONLY
R8625	401 038 6406	MT-GLAZE 4.7K JA 1/10W,VHR-H800EV ONLY
R8626	401 037 5004	MT-GLAZE 0.000 ZA 1/10W,VHR-H800EV ONLY
R8630	401 037 6803	MT-GLAZE 12K JA 1/10W, VHR-H800EV ONLY
R8631	401 039 0403	MT-GLAZE 8.2K JA 1/10W,VHR-H800EV ONLY
	(JUMPERS)	
	401 037 5004	MT-GLAZE 0.000 ZA 1/10W

COMPL PWB,TN-3

	613 176 9892	VHR-H760G,VHR-H780G
	(CONNECTORS)	
CN631	645 003 0925	PLUG,11P (N.S.P), VHR-H760G,VHR-H780G
	(SEMICONDUCTORS)	
Q6301	405 099 8508	TR 2SC4640S,VHR-H760G,VHR-H780G
OR	405 011 8401	TR 2SC1740S-Q,VHR-H760G,VHR-H780G
OR	405 093 0607	TR KSC2785-Y,VHR-H760G,VHR-H780G
OR	405 099 8607	TR 2SC4640T,VHR-H760G,VHR-H780G
OR	405 011 8500	TR 2SC1740S-R,VHR-H760G,VHR-H780G
	(INTEGRATED CIRCUITS)	
IC631	409 370 6504	IC TDA9840,VHR-H760G,VHR-H780G
IC632	409 002 5905	IC BA403,VHR-H760G,VHR-H780G
	(CRYSTAL DEVICES)	
X6301	645 002 0711	OSC,CRYSTAL 10MHZ,VHR-H760G,VHR-H780G
	(CERAMIC RESONATORS)	
XF631	645 020 7914	DISCR,CERAMIC 5.74MHZ, VHR-H760G,VHR-H780G
XF632	645 006 3022	CERAMIC FILTER 5.742MHZ, VHR-H760G,VHR-H780G
	(VARIABLE RESISTORS)	
VR631	645 003 5692	VR,SEMI,22K N,VHR-H760G,VHR-H780G
OR	645 001 9487	VR,SEMI 22K N,VHR-H760G,VHR-H780G
	(INDUCTORS)	
L6301	645 002 1428	INDUCTOR,15U J,VHR-H760G,VHR-H780G
OR	645 003 7955	INDUCTOR,15U J,VHR-H760G,VHR-H780G
L6302	645 003 6910	INDUCTOR,10U J,VHR-H760G,VHR-H780G
OR	645 003 7627	INDUCTOR,10U J,VHR-H760G,VHR-H780G
L6303	645 003 6910	INDUCTOR,10U J,VHR-H760G,VHR-H780G
OR	645 003 7627	INDUCTOR,10U J,VHR-H760G,VHR-H780G
	(TRANSFORMERS)	
T6301	645 020 7921	TRANS,IF 54.7MHZ,VHR-H760G,VHR-H780G
	(CAPACITORS)	
C6301	403 009 1809	CERAMIC 10P J 50V, VHR-H760G,VHR-H780G
C6302	403 024 1501	CERAMIC .39P J 50V, VHR-H760G,VHR-H780G
C6303	403 001 1906	CERAMIC 0.01U M 16V, VHR-H760G,VHR-H780G
C6304	403 001 1906	CERAMIC 0.01U M 16V, VHR-H760G,VHR-H780G
C6305	403 107 9905	ELECT 10U M 16V,VHR-H760G,VHR-H780G
C6306	403 001 1906	CERAMIC 0.01U M 16V, VHR-H760G,VHR-H780G
C6307	403 125 5606	ELECT 100U M 16V,VHR-H760G,VHR-H780G
C6308	403 134 8100	ELECT 100U M 6.3V,VHR-H760G,VHR-H780G
C6309	403 001 1906	CERAMIC 0.01U M 16V, VHR-H760G,VHR-H780G
C6310	403 001 1906	CERAMIC 0.01U M 16V, VHR-H760G,VHR-H780G

LOCATION	PARTS NO.	DESCRIPTION
C6311	403 001 1906	CERAMIC 0.01U M 16V, VHR-H760G,VHR-H780G
C6312	403 121 3507	ELECT 4.7U M 50V,VHR-H760G,VHR-H780G
C6313	403 121 3507	ELECT 4.7U M 50V,VHR-H760G,VHR-H780G
C6314	403 107 9905	ELECT 10U M 16V,VHR-H760G,VHR-H780G
C6315	403 001 1906	CERAMIC 0.01U M 16V, VHR-H760G,VHR-H780G
C6316	403 121 9509	CERAMIC 0.1U Z 50V, VHR-H760G,VHR-H780G
C6317	403 026 2209	CERAMIC 47P J 50V, VHR-H760G,VHR-H780G
C6318	403 134 8100	ELECT 100U M 6.3V,VHR-H760G,VHR-H780G
C6319	403 107 9905	ELECT 10U M 16V,VHR-H760G,VHR-H780G
C6320	403 107 9905	ELECT 10U M 16V,VHR-H760G,VHR-H780G
C6321	403 001 5102	CERAMIC 2200P M 16V, VHR-H760G,VHR-H780G
	(RESISTORS)	
R6301	401 014 4006	CARBON 1.5K JA 1/4W, VHR-H760G,VHR-H780G
R6303	401 018 2701	CARBON 330 JA 1/4W, VHR-H760G,VHR-H780G
R6304	401 021 1807	CARBON 560 JA 1/4W, VHR-H760G,VHR-H780G
R6305	401 012 5609	CARBON 1K JA 1/4W, VHR-H760G,VHR-H780G
R6306	401 012 5609	CARBON 1K JA 1/4W, VHR-H760G,VHR-H780G
R6307	401 013 6308	CARBON 12K JA 1/4W, VHR-H760G,VHR-H780G
R6308	401 023 2703	CARBON 8.2K JA 1/4W, VHR-H760G,VHR-H780G
R6311	401 020 1907	CARBON 4.7K JA 1/4W, VHR-H760G,VHR-H780G
R6312	401 020 1907	CARBON 4.7K JA 1/4W, VHR-H760G,VHR-H780G
R6313	401 017 2702	CARBON 27K JA 1/4W, VHR-H760G,VHR-H780G

COMPL PWB,TN-6

	613 189 5508	EXCEPT VHR-H760G,VHR-H780G
	(CONNECTORS)	
CN681	645 003 0925	PLUG,11P (N.S.P), EXCEPT VHR-H760G,VHR-H780G
	(SEMICONDUCTORS)	
Q6803	405 015 8407	TR 2SC2812-L5, EXCEPT VHR-H760G,VHR-H780G
OR	405 015 8704	TR 2SC2812-L6, EXCEPT VHR-H760G,VHR-H780G
OR	405 014 4509	TR 2SC2412K-R, EXCEPT VHR-H760G,VHR-H780G
OR	405 014 4608	TR 2SC2412K-S, EXCEPT VHR-H760G,VHR-H780G
	(INTEGRATED CIRCUITS)	
IC681	409 464 8001	IC TDA9874AH, EXCEPT VHR-H760G,VHR-H780G
OR	409 464 8001	IC TDA9874AH, EXCEPT VHR-H760G,VHR-H780G
	(CRYSTAL DEVICES)	
X6801	645 040 0704	OSC,CRYSTAL 24.576MHZ, EXCEPT VHR-H760G,VHR-H780G
	(INDUCTORS)	
L6802	645 001 5441	INDUCTOR,2.2U K, EXCEPT VHR-H760G,VHR-H780G
OR	645 005 3887	INDUCTOR,2.2U M, EXCEPT VHR-H760G,VHR-H780G
L6808	645 001 5441	INDUCTOR,2.2U K, EXCEPT VHR-H760G,VHR-H780G
OR	645 005 3887	INDUCTOR,2.2U M, EXCEPT VHR-H760G,VHR-H780G
L6811	645 001 5441	INDUCTOR,2.2U K, EXCEPT VHR-H760G,VHR-H780G
OR	645 005 3887	INDUCTOR,2.2U M, EXCEPT VHR-H760G,VHR-H780G
L6812	645 001 5441	INDUCTOR,2.2U K, EXCEPT VHR-H760G,VHR-H780G
OR	645 005 3887	INDUCTOR,2.2U M, EXCEPT VHR-H760G,VHR-H780G

LOCATION	PARTS NO.	DESCRIPTION
	(CAPACITORS)	
C6801	403 068 0409	CERAMIC 0.1U Z 25V, EXCEPT VHR-H760G,VHR-H780G
C6803	403 026 2902	CERAMIC 47P J 50V, EXCEPT VHR-H760G,VHR-H780G
C6804	403 068 0409	CERAMIC 0.1U Z 25V, EXCEPT VHR-H760G,VHR-H780G
C6806	403 069 5601	CERAMIC 0.01U K 50V, EXCEPT VHR-H760G,VHR-H780G
C6807	403 121 3507	ELECT 4.7U M 50V, EXCEPT VHR-H760G,VHR-H780G
C6808	403 109 6308	ELECT 1U M 50V, EXCEPT VHR-H760G,VHR-H780G
C6812	403 068 0409	CERAMIC 0.1U Z 25V, EXCEPT VHR-H760G,VHR-H780G
C6815	403 207 0505	CERAMIC 0.47U Z 16V, EXCEPT VHR-H760G,VHR-H780G
C6817	403 069 5601	CERAMIC 0.01U K 50V, EXCEPT VHR-H760G,VHR-H780G
C6818	403 121 3507	ELECT 4.7U M 50V, EXCEPT VHR-H760G,VHR-H780G
C6820	403 135 4002	ELECT 47U M 6.3V, EXCEPT VHR-H760G,VHR-H780G
C6826	403 069 5601	CERAMIC 0.01U K 50V, EXCEPT VHR-H760G,VHR-H780G
C6828	403 069 5601	CERAMIC 0.01U K 50V, EXCEPT VHR-H760G,VHR-H780G
C6832	403 069 5601	CERAMIC 0.01U K 50V, EXCEPT VHR-H760G,VHR-H780G
C6833	403 135 4002	ELECT 47U M 6.3V, EXCEPT VHR-H760G,VHR-H780G
C6834	403 069 5601	CERAMIC 0.01U K 50V, EXCEPT VHR-H760G,VHR-H780G
C6835	403 125 5606	ELECT 100U M 16V, EXCEPT VHR-H760G,VHR-H780G
C6838	403 121 3408	ELECT 2.2U M 50V, EXCEPT VHR-H760G,VHR-H780G
C6841	403 121 3408	ELECT 2.2U M 50V, EXCEPT VHR-H760G,VHR-H780G
C6842	403 069 5601	CERAMIC 0.01U K 50V, EXCEPT VHR-H760G,VHR-H780G
C6843	403 069 5601	CERAMIC 0.01U K 50V, EXCEPT VHR-H760G,VHR-H780G
C6847	403 135 4002	ELECT 47U M 6.3V, EXCEPT VHR-H760G,VHR-H780G
	(RESISTORS)	
R6803	401 039 0403	MT-GLAZE 8.2K JA 1/10W, EXCEPT VHR-H760G,VHR-H780G
R6812	401 037 5400	MT-GLAZE 1K JA 1/10W, EXCEPT VHR-H760G,VHR-H780G
R6816	401 037 5400	MT-GLAZE 1K JA 1/10W, EXCEPT VHR-H760G,VHR-H780G
R6817	401 038 0701	MT-GLAZE 2.2K JA 1/10W, EXCEPT VHR-H760G,VHR-H780G
R6818	401 037 5608	MT-GLAZE 10K JA 1/10W, EXCEPT VHR-H760G,VHR-H780G
R6819	401 038 0800	MT-GLAZE 22K JA 1/10W, EXCEPT VHR-H760G,VHR-H780G
R6822	401 038 6406	MT-GLAZE 4.7K JA 1/10W, EXCEPT VHR-H760G,VHR-H780G
R6823	401 038 6406	MT-GLAZE 4.7K JA 1/10W, EXCEPT VHR-H760G,VHR-H780G
	(JUMPERS)	
	401 037 5004	MT-GLAZE 0.000 ZA 1/10W, EXCEPT VHR-H760G,VHR-H780G

COMPL PWB,AD-5

	613 184 9228	VHR-H800EV ONLY
	(CONNECTORS)	
CN251	645 007 6336	PLUG,7P (N.S.P),VHR-H800EV ONLY
	(SEMICONDUCTORS)	
Q2501	405 015 8407	TR 2SC2812-L5,VHR-H800EV ONLY
OR	405 015 8704	TR 2SC2812-L6,VHR-H800EV ONLY
OR	405 014 4509	TR 2SC2412K-R,VHR-H800EV ONLY
OR	405 014 4608	TR 2SC2412K-S,VHR-H800EV ONLY
Q2502	405 015 8407	TR 2SC2812-L5,VHR-H800EV ONLY
OR	405 015 8704	TR 2SC2812-L6,VHR-H800EV ONLY

LOCATION	PARTS NO.	DESCRIPTION
Q2502	405 014 4509	TR 2SC2412K-R,VHR-H800EV ONLY
OR	405 014 4608	TR 2SC2412K-S,VHR-H800EV ONLY
	(INTEGRATED CIRCUITS)	
IC251	409 435 9907	IC LC85405JE,VHR-H800EV ONLY
	(CRYSTAL DEVICES)	
X2501	645 023 1865	OSC,CERAMIC 4.60MHZ,VHR-H800EV ONLY
	(INDUCTORS)	
L2501	645 002 1411	INDUCTOR,10U J,VHR-H800EV ONLY
OR	645 003 7894	INDUCTOR,10U J,VHR-H800EV ONLY
	(CAPACITORS)	
C2501	403 068 0409	CERAMIC 0.1U Z 25V,VHR-H800EV ONLY
C2502	403 107 9905	ELECT10U M 16V,VHR-H800EV ONLY
C2503	403 135 3807	ELECT330U M 6.3V,VHR-H800EV ONLY
C2504	403 069 9500	CERAMIC 0.01U Z 50V, VHR-H800EV ONLY
C2505	403 135 3807	ELECT330U M 6.3V,VHR-H800EV ONLY
C2506	403 069 9500	CERAMIC 0.01U Z 50V, VHR-H800EV ONLY
C2508	403 121 2401	ELECT22U M 16V,VHR-H800EV ONLY
C2509	403 121 3408	ELECT2.2U M 50V,VHR-H800EV ONLY
C2510	403 107 9905	ELECT10U M 16V,VHR-H800EV ONLY
C2511	403 010 1102	CERAMIC 1000P J 50V, VHR-H800EV ONLY
C2512	403 010 1102	CERAMIC 1000P J 50V, VHR-H800EV ONLY
C2513	403 071 8102	CERAMIC 2200P K 50V, VHR-H800EV ONLY
C2514	403 130 3109	CERAMIC 0.047U K 50V,VHR-H800EV ONLY
C2515	403 010 1102	CERAMIC 1000P J 50V, VHR-H800EV ONLY
C2516	403 028 4102	CERAMIC 56P J 50V,VHR-H800EV ONLY
C2517	403 010 1102	CERAMIC 1000P J 50V, VHR-H800EV ONLY
C2518	403 135 4002	ELECT47U M 6.3V,VHR-H800EV ONLY
C2519	403 069 1702	CERAMIC 1000P K 50V, VHR-H800EV ONLY
C2520	403 071 8102	CERAMIC 2200P K 50V, VHR-H800EV ONLY
C2522	403 069 1702	CERAMIC 1000P K 50V, VHR-H800EV ONLY
C2523	403 069 1702	CERAMIC 1000P K 50V, VHR-H800EV ONLY
C2524	403 107 9905	ELECT10U M 16V,VHR-H800EV ONLY
C2525	403 022 8205	CERAMIC 33P J 50V,VHR-H800EV ONLY
C2526	403 070 2606	CERAMIC 0.1U Z 50V,VHR-H800EV ONLY
	(RESISTORS)	
R2501	401 038 0206	MT-GLAZE 20K JA 1/10W, VHR-H800EV ONLY
R2502	401 038 3702	MT-GLAZE 33K JA 1/10W, VHR-H800EV ONLY
R2503	401 037 5608	MT-GLAZE 10K JA 1/10W, VHR-H800EV ONLY
R2504	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV ONLY
R2505	401 038 6406	MT-GLAZE 4.7K JA 1/10W,VHR-H800EV ONLY
R2506	401 038 6406	MT-GLAZE 4.7K JA 1/10W,VHR-H800EV ONLY
R2507	401 164 7407	MT-FILM 1.8K DU 1/10W, VHR-H800EV ONLY
R2508	401 165 1305	MT-FILM 68K DU 1/10W, VHR-H800EV ONLY
R2509	401 164 7100	MT-FILM 1.5K DU 1/10W, VHR-H800EV ONLY
R2510	401 037 5608	MT-GLAZE 10K JA 1/10W, VHR-H800EV ONLY
R2511	401 038 0909	MT-GLAZE 220K JA 1/10W,VHR-H800EV ONLY
R2512	401 038 6505	MT-GLAZE 47K JA 1/10W, VHR-H800EV ONLY
R2513	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV ONLY
R2514	401 037 9309	MT-GLAZE 18K JA 1/10W, VHR-H800EV ONLY
R2515	401 038 0909	MT-GLAZE 220K JA 1/10W,VHR-H800EV ONLY
R2516	401 037 5608	MT-GLAZE 10K JA 1/10W, VHR-H800EV ONLY
R2517	401 038 6604	MT-GLAZE 470K JA 1/10W,VHR-H800EV ONLY
R2518	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV ONLY
R2519	401 037 5608	MT-GLAZE 10K JA 1/10W, VHR-H800EV ONLY
R2521	401 037 5707	MT-GLAZE 100K JA 1/10W,VHR-H800EV ONLY
R2526	401 037 9309	MT-GLAZE 18K JA 1/10W, VHR-H800EV ONLY
R2527	401 037 9309	MT-GLAZE 18K JA 1/10W, VHR-H800EV ONLY
R2529	401 038 3702	MT-GLAZE 33K JA 1/10W, VHR-H800EV ONLY
	(JUMPERS)	
	401 037 5004	MT-GLAZE 0.000 ZA 1/10W,VHR-H800EV ONLY
	(FILTERS)	
F2501	610 247 3322	FILTER,EMI 22000PF,VHR-H800EV ONLY
	(MISCELLANEOUS)	
	613 176 8239	SPACER,VHR-H800EV ONLY

COMPL PWB,AD-6

	613 184 7828	VHR-H800EV ONLY
	(CONNECTORS)	
CN261	645 008 7707	SOCKET,10P (N.S.P),VHR-H800EV ONLY
	(SEMICONDUCTORS)	
Q2613	405 000 2007	TR DTA144EK,VHR-H800EV ONLY
Q2640	405 015 8407	TR 2SC2812-L5,VHR-H800EV ONLY
OR	405 015 8704	TR 2SC2812-L6,VHR-H800EV ONLY
OR	405 014 4509	TR 2SC2412K-R,VHR-H800EV ONLY
OR	405 014 4608	TR 2SC2412K-S,VHR-H800EV ONLY
Q2644	405 015 8407	TR 2SC2812-L5,VHR-H800EV ONLY
OR	405 015 8704	TR 2SC2812-L6,VHR-H800EV ONLY
OR	405 014 4509	TR 2SC2412K-R,VHR-H800EV ONLY
OR	405 014 4608	TR 2SC2412K-S,VHR-H800EV ONLY
Q2648	405 015 8407	TR 2SC2812-L5,VHR-H800EV ONLY
OR	405 015 8704	TR 2SC2812-L6,VHR-H800EV ONLY
OR	405 014 4509	TR 2SC2412K-R,VHR-H800EV ONLY
OR	405 014 4608	TR 2SC2412K-S,VHR-H800EV ONLY
Q2651	405 083 5209	TR DTC343TK,VHR-H800EV ONLY
Q2652	405 083 5209	TR DTC343TK,VHR-H800EV ONLY
	(INTEGRATED CIRCUITS)	
IC261	409 405 6004	IC MM1369BD,VHR-H800EV ONLY
IC262	409 192 7109	IC BA15218F,VHR-H800EV ONLY
OR	409 192 7109	IC BA15218F,VHR-H800EV ONLY
	(CAPACITORS)	
C2601	403 150 6500	ELECT22U M 16V,VHR-H800EV ONLY
C2602	403 075 0706	CERAMIC 6800P K 50V, VHR-H800EV ONLY
C2603	403 010 1102	CERAMIC 1000P J 50V, VHR-H800EV ONLY
C2604	403 168 6103	MT-POLYEST 0.1U J 50V,VHR-H800EV ONLY
C2607	403 163 8409	ELECT47U M 16V,VHR-H800EV ONLY
C2609	403 191 8808	ELECT2.2U M 50V,VHR-H800EV ONLY
C2614	403 069 5601	CERAMIC 0.01U K 50V, VHR-H800EV ONLY
C2615	403 069 5601	CERAMIC 0.01U K 50V, VHR-H800EV ONLY
C2616	403 069 5601	CERAMIC 0.01U K 50V, VHR-H800EV ONLY
C2617	403 069 5601	CERAMIC 0.01U K 50V, VHR-H800EV ONLY
C2619	403 010 1102	CERAMIC 1000P J 50V, VHR-H800EV ONLY
C2620	403 168 6103	MT-POLYEST 0.1U J 50V,VHR-H800EV ONLY
C2622	403 075 0706	CERAMIC 6800P K 50V, VHR-H800EV ONLY
C2623	403 150 6500	ELECT22U M 16V,VHR-H800EV ONLY
C2624	403 193 7809	ELECT100U M 16V,VHR-H800EV ONLY
C2632	403 189 2405	ELECT10U M 16V,VHR-H800EV ONLY
C2636	403 189 2405	ELECT10U M 16V,VHR-H800EV ONLY
C2640	403 189 2405	ELECT10U M 16V,VHR-H800EV ONLY
C2642	403 193 8400	ELECT0.22U M 50V,VHR-H800EV ONLY
C2644	403 191 8808	ELECT2.2U M 50V,VHR-H800EV ONLY
C2651	403 139 1601	ELECT22U M 16V,VHR-H800EV ONLY
C2652	403 150 6500	ELECT22U M 16V,VHR-H800EV ONLY
	(RESISTORS)	
R2602	401 038 8004	MT-GLAZE 5.6M JA 1/10W,VHR-H800EV ONLY
R2604	401 037 9507	MT-GLAZE 1.8M JA 1/10W,VHR-H800EV ONLY
R2605	401 038 2408	MT-GLAZE 2.7M JA 1/10W,VHR-H800EV ONLY
R2606	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV ONLY
R2609	401 037 5202	MT-GLAZE 100 JA 1/10W, VHR-H800EV ONLY
R2610	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV ONLY

LOCATION	PARTS NO.	DESCRIPTION
R2618	401 038 9704	MT-GLAZE 7.5K JA 1/10W,VHR-H800EV ONLY
R2623	401 037 5806	MT-GLAZE 1M JA 1/10W, VHR-H800EV ONLY
R2631	401 038 7700	MT-GLAZE 5.6K JA 1/10W,VHR-H800EV ONLY
R2632	401 038 5102	MT-GLAZE 3.9K JA 1/10W,VHR-H800EV ONLY
R2636	401 038 5102	MT-GLAZE 3.9K JA 1/10W,VHR-H800EV ONLY
R2637	401 038 7700	MT-GLAZE 5.6K JA 1/10W,VHR-H800EV ONLY
R2640	401 038 6406	MT-GLAZE 4.7K JA 1/10W,VHR-H800EV ONLY
R2641	401 038 0909	MT-GLAZE 220K JA 1/10W,VHR-H800EV ONLY
R2642	401 038 7809	MT-GLAZE 56K JA 1/10W, VHR-H800EV ONLY
R2643	401 038 7809	MT-GLAZE 56K JA 1/10W, VHR-H800EV ONLY
R2644	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV ONLY
R2645	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV ONLY
R2646	401 039 0502	MT-GLAZE 82K JA 1/10W, VHR-H800EV ONLY
R2647	401 037 9309	MT-GLAZE 18K JA 1/10W, VHR-H800EV ONLY
R2648	401 038 0701	MT-GLAZE 2.2K JA 1/10W,VHR-H800EV ONLY
R2649	401 037 5400	MT-GLAZE 1K JA 1/10W, VHR-H800EV ONLY
R2650	401 038 9209	MT-GLAZE 6.8K JA 1/10W,VHR-H800EV ONLY
R2651	401 038 7700	MT-GLAZE 5.6K JA 1/10W,VHR-H800EV ONLY
R2652	401 038 7700	MT-GLAZE 5.6K JA 1/10W,VHR-H800EV ONLY
R2653	401 038 0602	MT-GLAZE 220 JA 1/10W, VHR-H800EV ONLY
R2654	401 038 0602	MT-GLAZE 220 JA 1/10W, VHR-H800EV ONLY
R2661	401 037 6704	MT-GLAZE 1.2K JA 1/10W,VHR-H800EV ONLY
R2662	401 037 5608	MT-GLAZE 10K JA 1/10W, VHR-H800EV ONLY
R2663	401 037 6704	MT-GLAZE 1.2K JA 1/10W,VHR-H800EV ONLY
R2664	401 037 5608	MT-GLAZE 10K JA 1/10W, VHR-H800EV ONLY
	(MISCELLANEOUS)	
	613 053 8055	FIXER,VHR-H800EV ONLY

FLEXIBLE FLAT CABLE

645 031 6081	FLEXIBLE FLAT CABLE CP1(CN351)-STATOR CYL(CN1)
645 032 2129	FLEXIBLE FLAT CABLE,CN701-CN711, VHR-H800EV ONLY

ACCESSORIES

613 189 9384	COVER BATTERY,FOR REMOCON,INFRARED, VHR-H800EV ONLY
613 189 9414	COVER BATTERY,FOR REMOCON,INFRARED, EXCEPT VHR-H800EV,VHR-H780IR
613 191 8757	COVER BATTERY,FOR REMOCON,INFRARED, VHR-H780IR ONLY
645 038 5209	REMOCON,INFRARED,WITH COVER BATTERY, VHR-H800EV ONLY
645 038 4158	REMOCON,INFRARED,WITH COVER BATTERY, VHR-H780IR ONLY
645 040 5044	REMOCON,INFRARED,WITH COVER BATTERY, EXCEPT VHR-H800EV,VHR-H780IR
613 190 2855	INSTRUCTION MANUAL,VHR-H800EV ONLY
613 190 5498	INSTRUCTION MANUAL,VHR-H780IR ONLY
613 191 4377	INSTRUCTION MANUAL,VHR-H760G ONLY
613 191 4384	INSTRUCTION MANUAL,VHR-H780G ONLY
613 191 7231	INSTRUCTION MANUAL,VHR-H770EV ONLY
645 023 4170	CABLE,ANT PAL
OR 645 025 1382	CABLE,ANT PAL

LOCATION	PARTS NO.	DESCRIPTION
	⚠ 645 023 4156	CORD,POWER-1.5MK,VHR-H780IR ONLY
OR	⚠ 613 136 6411	CORD,POWER,VHR-H780IR ONLY
OR	⚠ 645 019 1923	CORD,POWER-1.8MK,VHR-H780IR ONLY
	⚠ 645 023 4163	CORD,POWER-1.5MK,EXCEPT VHR-H780IR
OR	⚠ 645 024 0522	CORD,POWER-1.5MK,EXCEPT VHR-H780IR
OR	⚠ 645 025 0767	CORD,POWER-1.5MK,EXCEPT VHR-H780IR
OR	⚠ 645 028 3086	CORD,POWER-1.525MK,EXCEPT VHR-H780IR

PACKING MATERIALS

613 190 2824	CARTON CASE,VHR-H800EV ONLY
613 190 5467	CARTON CASE,VHR-H780IR ONLY
613 191 4322	CARTON CASE,VHR-H760G ONLY
613 191 4339	CARTON CASE,VHR-H780G ONLY
613 191 8139	CARTON CASE,VHR-H770EV ONLY
613 190 2831	CUSHION, FRONT(SID)
613 190 2848	CUSHION, BACK(SID)
613 139 8047	POLYE COVER,INNER-K

SANYO

SANYO Electric Co.,Ltd.
Osaka, Japan

Apr./'00/2600 NS Printed in Japan

VHR-H770EV VHR-H800EV
VHR-H780IR VHR-H760G
VHR-H780G

BLOCK DIAGRAMS,CIRCUIT DIAGRAMS & PRINTED WIRING BOARDS

TABLE OF CONTENTS

Page

1. OVERALL WIRING & BLOCK DIAGRAMS

OVERALL WIRING 1
DECODER INTERFACE CIRCUIT (VHR-H800EV) 2
AUDIO CIRCUIT 4
VIDEO CIRCUIT 7
SYSTEM CONTROL & SERVO CIRCUIT 10

2. CIRCUIT DIAGRAMS & PRINTED WIRING BOARDS (P.W.B.)

CP-1 BOARD (PW-A) POWER SUPPLY 13
CP-1 BOARD (MC-A) MECHANISM SENSOR 15
CP-1 BOARD (VA-A) VIDEO & AUDIO (EXCEPT VHR-H800EV) 16
VIDEO CIRCUIT WAVEFORMS 18
CP-1 BOARD (VA-A) VIDEO & AUDIO (VHR-H800EV) 19
CP-1 BOARD (AD-A) HiFi AUDIO (EXCEPT VHR-H800EV) 21
CP-1 BOARD (AD-A) HiFi AUDIO (VHR-H800EV) 23
CP-1 BOARD (TC-A) VPS, PDC 25
CP-1 BOARD (TM-A) DISPLAY (FLD) & KEY SCAN 26
A7001 DISPLAY (FLD) GRID/ANODE ASSIGNMENT DRAWING & TABLE 26
TM-1 BOARD SWITCH (VHR-H800EV) 27
TM-1 P.W.B. (VHR-H800EV) 27
TM-2 BOARD SWITCH (VHR-H800EV) 28
TM-2 P.W.B. (VHR-H800EV) 28
IC301 SYSTEM CONTROL, TIMER, TUNING CONTROL, OSC & SERVO MPU PIN FUNCTIONS 29
SERVO CIRCUIT WAVEFORMS 29
CP-1 BOARD (SY-A) SYSTEM CONTROL, TIMER, TUNER, OSC & SERVO 29
CP-1 P.W.B. 32
AD-5 P.W.B. (VHR-H800EV) 35
AD-6 P.W.B. (VHR-H800EV) 35
AD-5 BOARD VSC (DMSS) (VHR-H800EV) 35
AD-6 BOARD Q SOUND (SURROUND) (VHR-H800EV) 37
TB-1 P.W.B. 38
TB-1 BOARD TERMINAL (EXCEPT VHR-H800EV) 39
TB-1 BOARD DECODER INTERFACE (VHR-H800EV) 40
TN-3 BOARD TV SOUND (MTS) DEMODULATOR (VHR-H760G, VHR-H780G) 43
TN-3 P.W.B. (VHR-H760G, VHR-H780G) 44
TN-6 P.W.B. (VHR-H770EV, VHR-H800EV, VHR-H780IR) 44
TN-6 BOARD TV SOUND (MTS,NICAM) DEMODULATOR (VHR-H770EV, VHR-H800EV, VHR-H780IR) .. 45

REFERENCE No.SM5310158

NOTES:

1. All resistance values in "OHMS" unless otherwise noted.
   (K=1,000 ; M=1,000,000)
2. All capacitance values in "μF" unless otherwise noted.
   p=pico farad ; μ ,u or U=micro farad
3. All inductance values in "μH" unless otherwise noted.
   μ ,u or U=micro henry ; m=milli henry

PRODUCTSAFETYNOTICE

THE COMPONENTS DESIGNATED BY A SYMBOL (⚠) IN THIS SCHEMATIC DIAGRAM DESIGNATES COMPONENTS WHOSE VALUEAREOFSPECIALSIGNIFICANCETOPRODUCTSAFETY. SHOULDANYCOMPONENTDESIGNATEDBYASYMBOLNEEDTO BEREPLACED,USEONLYTHEPARTDESIGNATEDINTHEPARTS LIST.
DONOTDEVIATEFROMTHERESISTANCE,WATTAGEANDVOLT-AGERATINGSSHOWN.

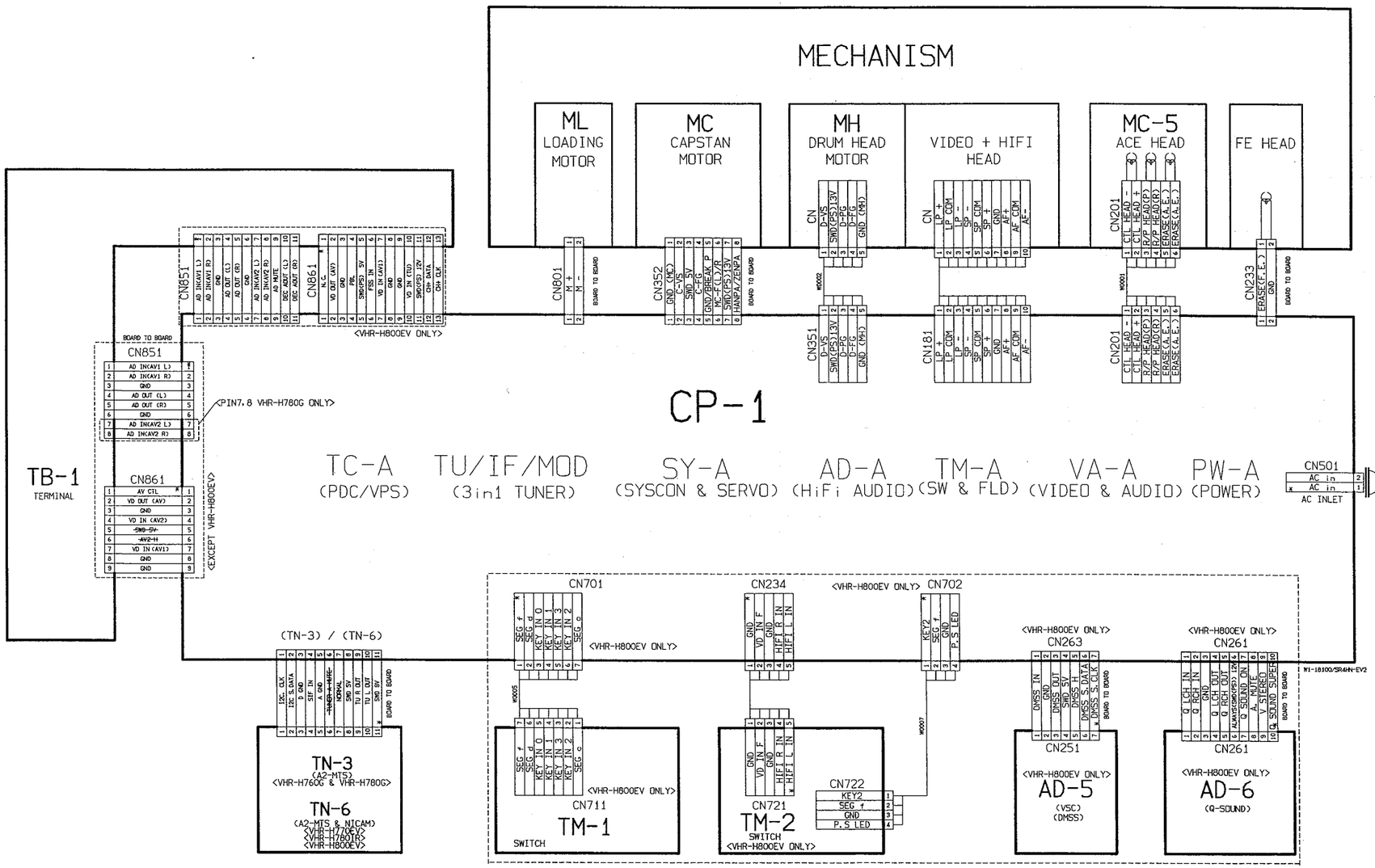
EXPLANATORY NOTES (EXAMPLES)

Resistor	10K:1/16J means 10kilo ohm ±5%, 1/16watt max.
	1M:1/10K means 1mega ohm ±10%, 1/10watt max.
Capacitor	0.047:F means 0.047micro farad, Ftype.
Electrolytic capacitor	
	10:16 means 10micro farad, 16volt max.
Inductor	330:J means 330micro henry ±5%
	470:K means 470micro henry ±10%
	No description J or K means ±5%

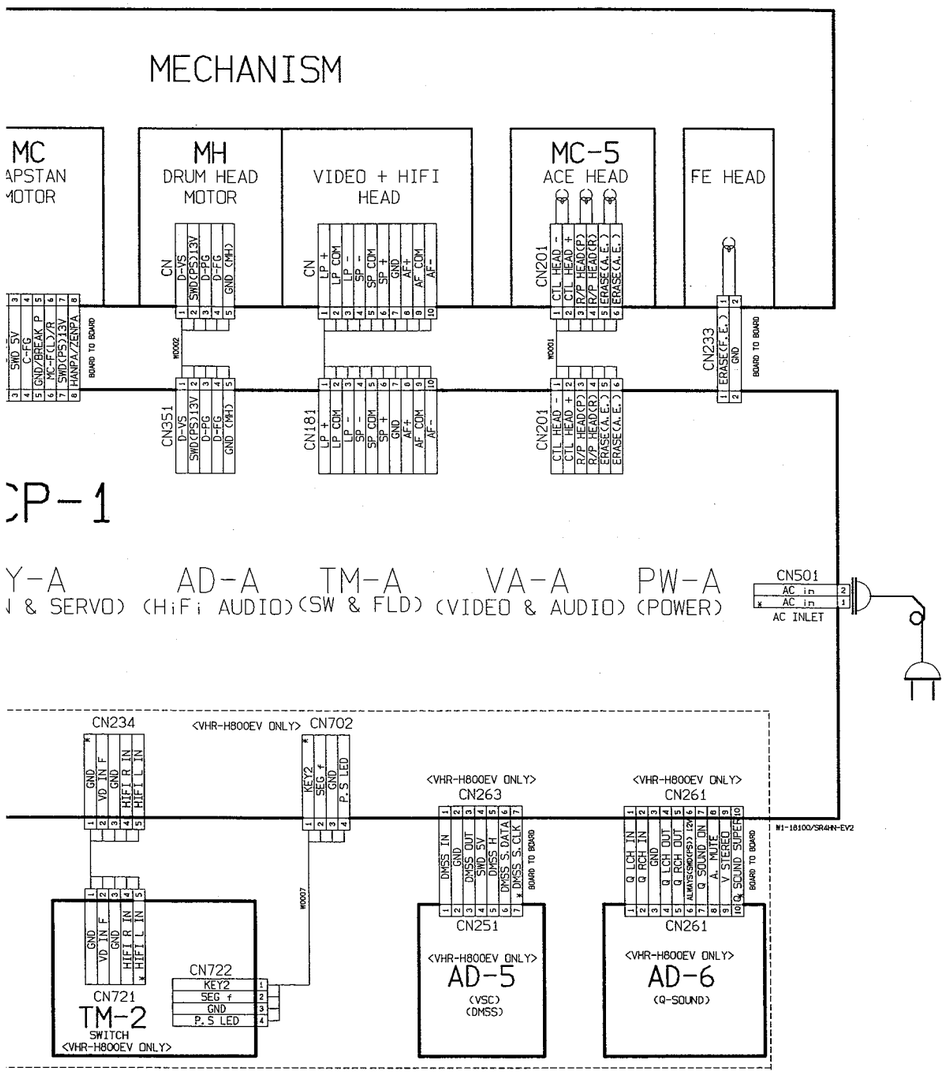
PAL-C-EX

1. OVERALL WIRING & BLOCK DIAGRAMS

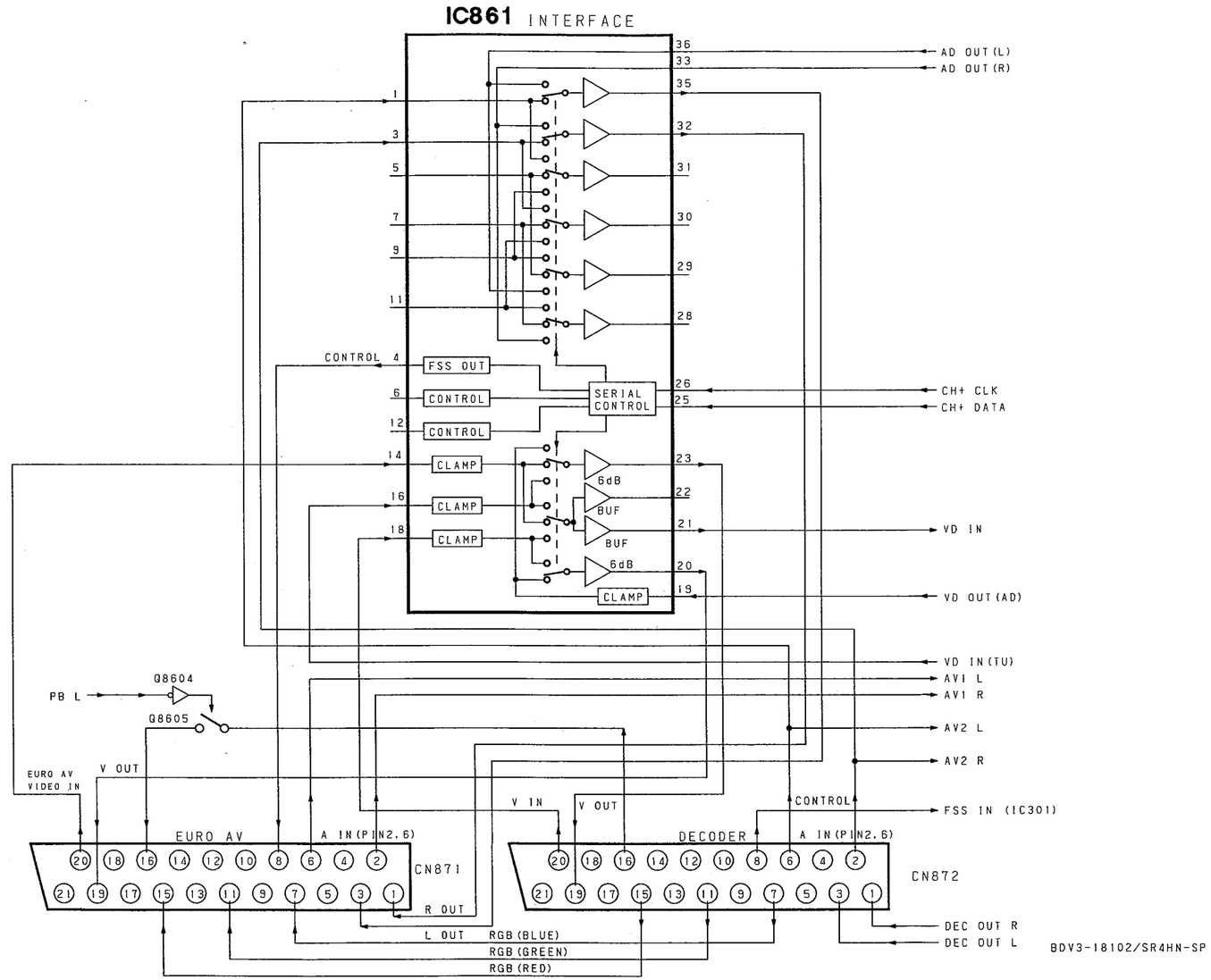
OVERALL WIRING



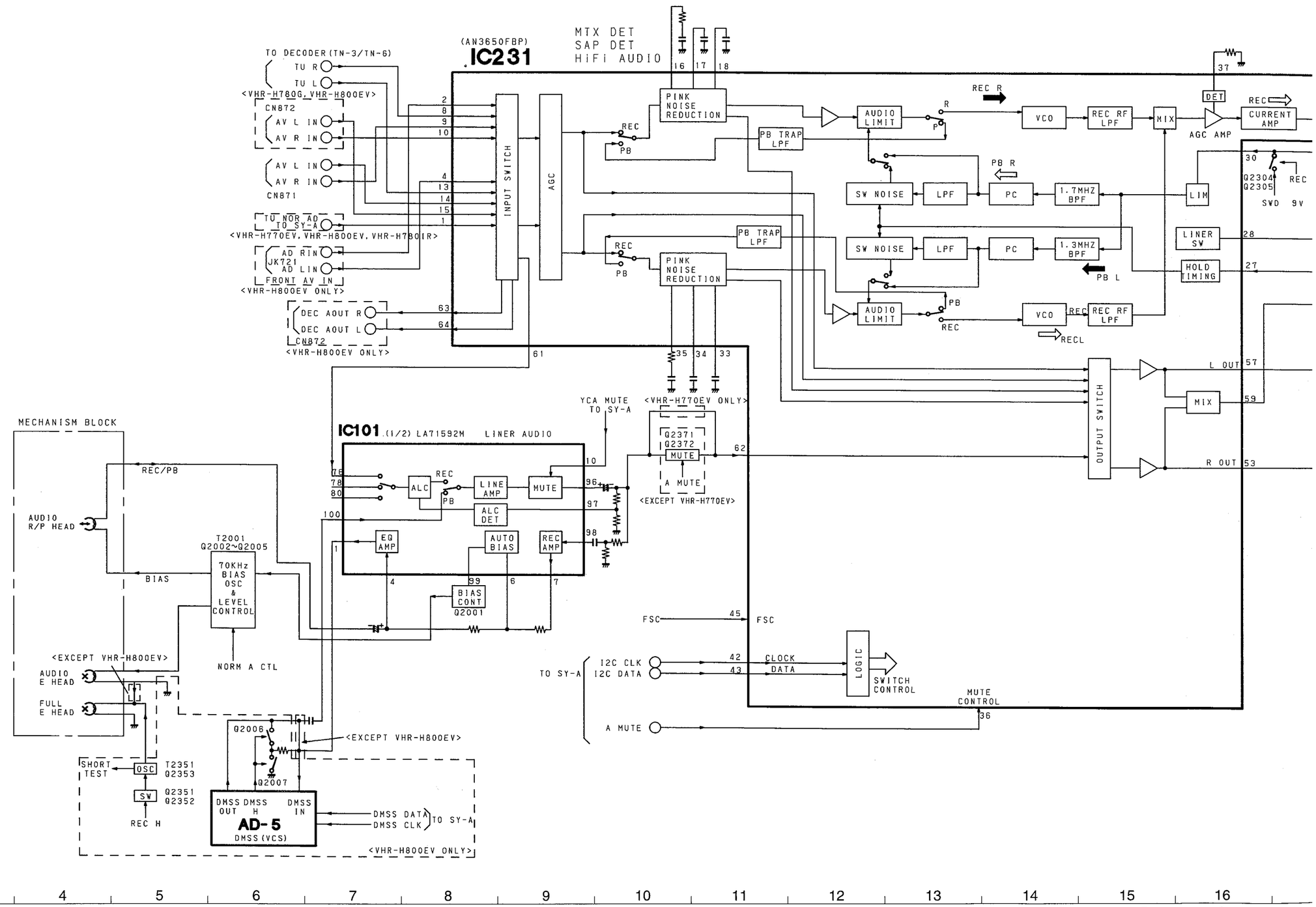
'ERALL WIRING



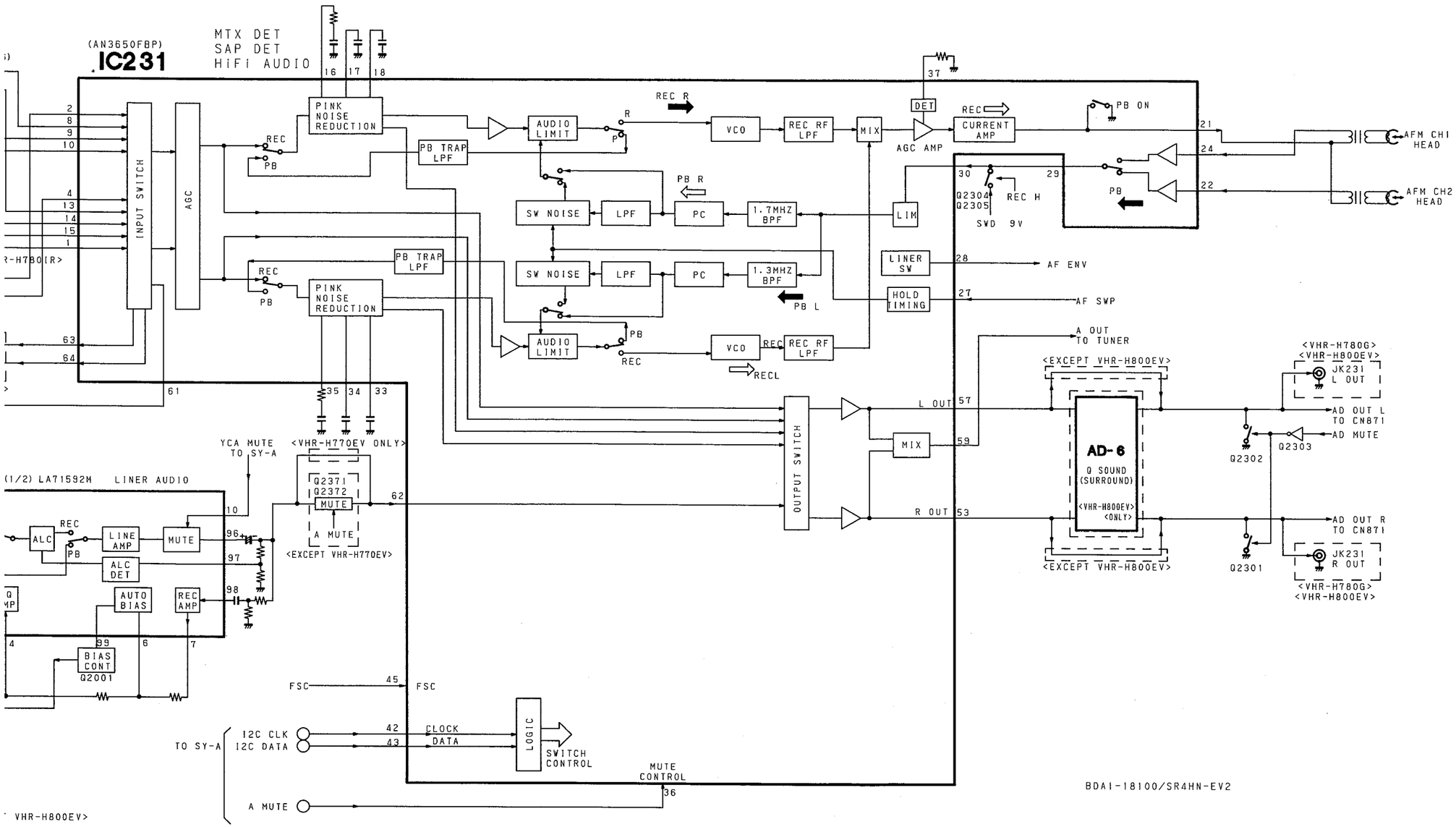
DECODER INTERFACE CIRCUIT (VHR-H800EV)



AUDIO CIRCUIT



AUDIO CIRCUIT



VIDEO CIRCUIT

IC101 VIDEO PROCESS (LA71592M)

HEAD DRUM
CH2 LP HEAD CH1
CH2 SP HEAD CH1
82 83 84 85 88 89 90 91

HEAD AMP RF PROCESSING

REC FM AGC DET

TO SY-A
ENV DET 93
ENV SW 94
TP182
PB ENV BUF Q1007 74

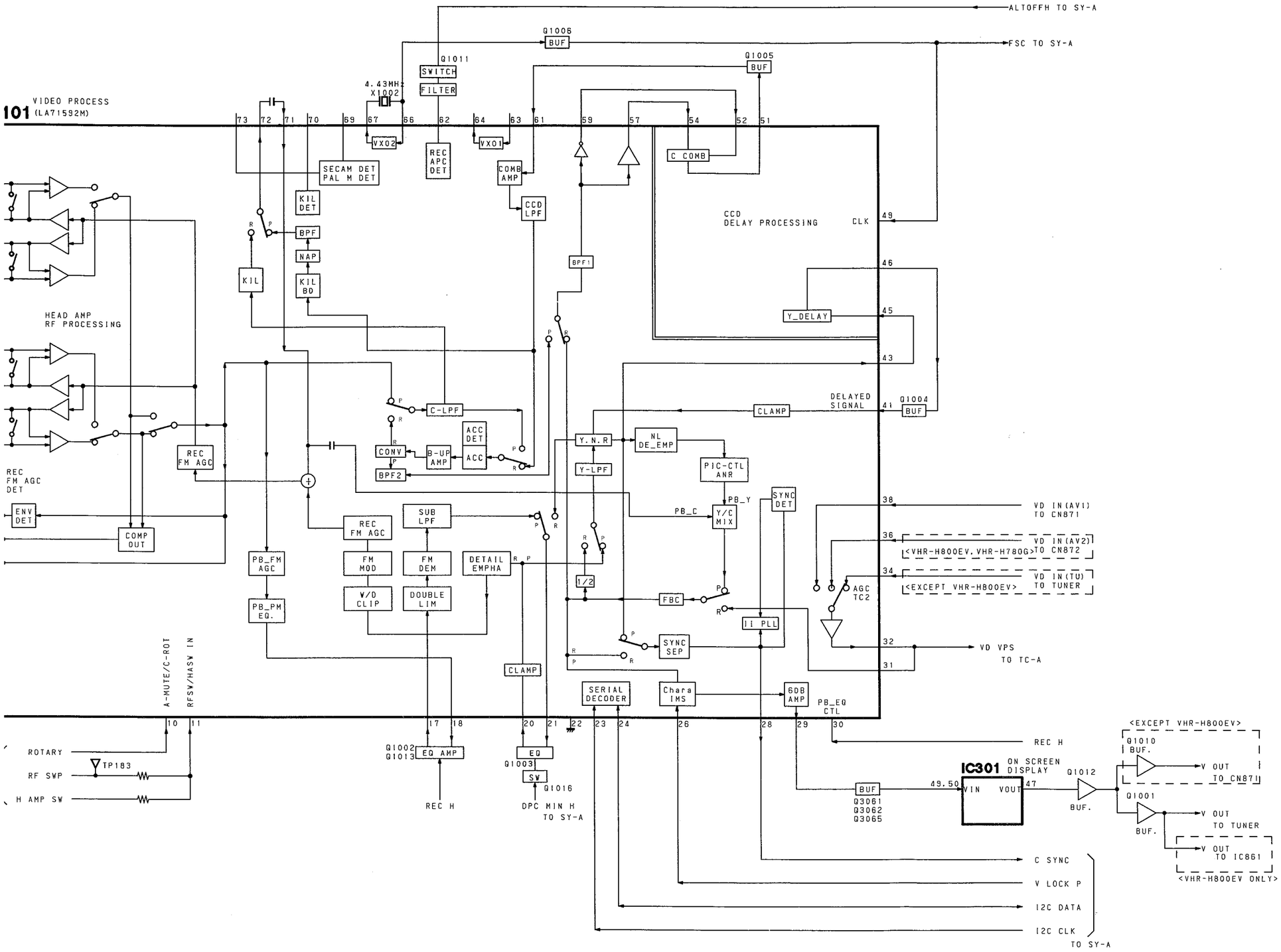
ENV DET
COMP OUT
REC FM AGC
PB_FM AGC
PB_PM EQ.

TO SY-A
ROTARY
TP183
RF SWP
H AMP SW
10 A-MUTE/C-ROT
11 RFSW/HASW IN

Q1011 SWITCH FILTER
4.43MHz X1002
73 72 71 70 69 67 66 62 64 63 61 59 57 54 52 51
VXO2
VXO1
REC APC DET
SECAM DET PAL M DET
KIL DET
KIL
BPF
NAP
KIL BD
COMB AMP
CCD LPF
Q1006 BUF
Q1005 BUF
C COMB
CCD DELAY PROCESSING
CLK 49
BPF1
46
Y_DELAY
45
43
DELAYED SIGNAL
CLAMP
41 Q1004 BUF
C-LPF
CONV
B-UP AMP
BPF2
ACC DET
ACC
Y.N.R
NL DE_EMP
Y-LPF
PIC-CTL ANR
PB_Y
PB_C
Y/C MIX
SYNC DET
38
36 <VHR-H80
34 <EXCEPT
AGC TC2
SUB LPF
REC FM AGC
FM MOD
FM DEM
DETAIL EMPHA
W/D CLIP
DOUBLE LIM
1/2
FBC
11 PLL
SYNC SEP
32
31
CLAMP
SERIAL DECODER
Chara IMS
6DB AMP
PB_EQ CTL
17 18 20 21 22 23 24 26 28 29 30
Q1002 Q1013 EQ AMP
REC H
EQ Q1003
SW Q1016
DPC MIN H TO SY-A
BUF Q3061 Q3062 Q3065
49.5

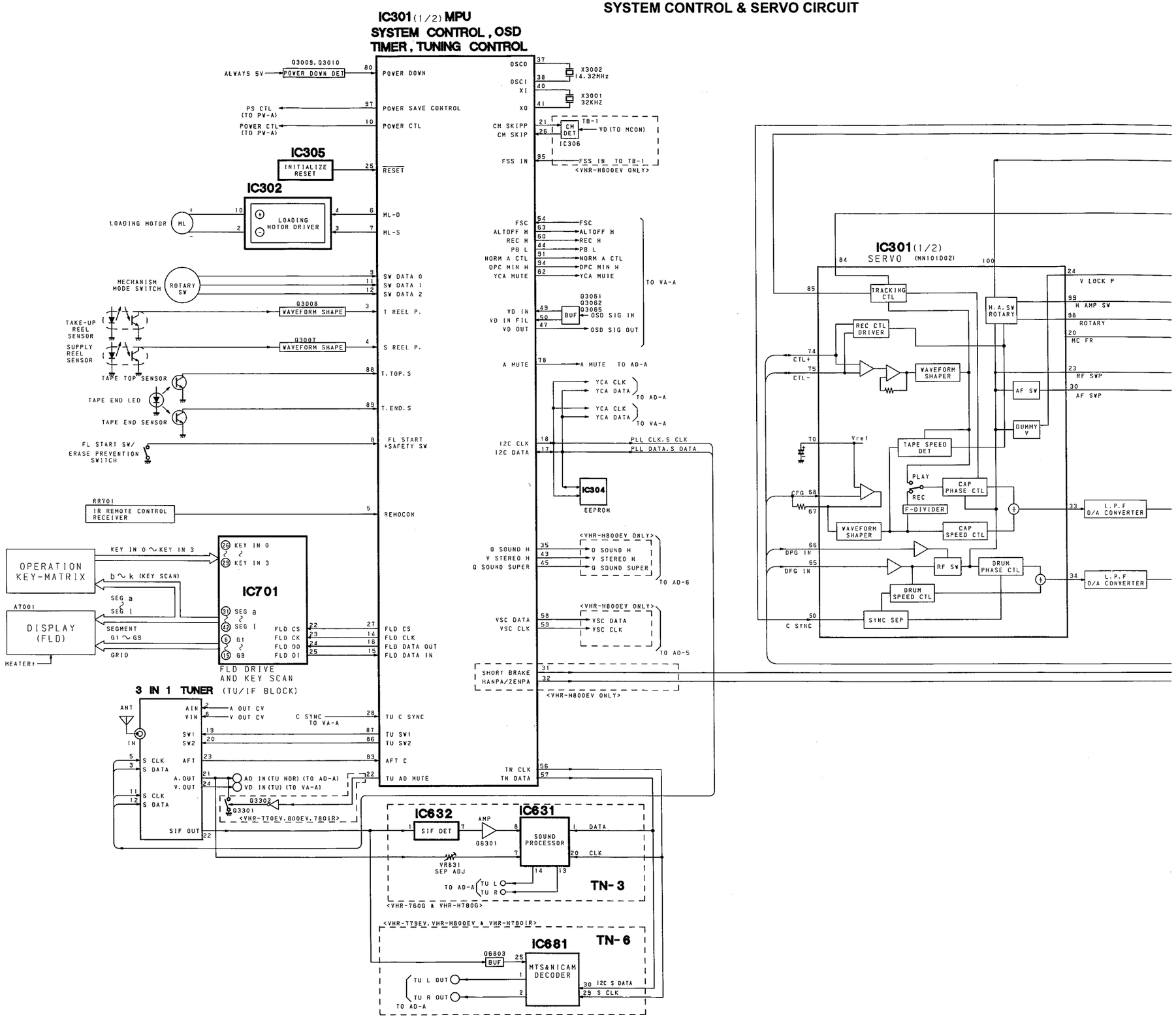
K J I H G F E D C B A
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

VIDEO CIRCUIT

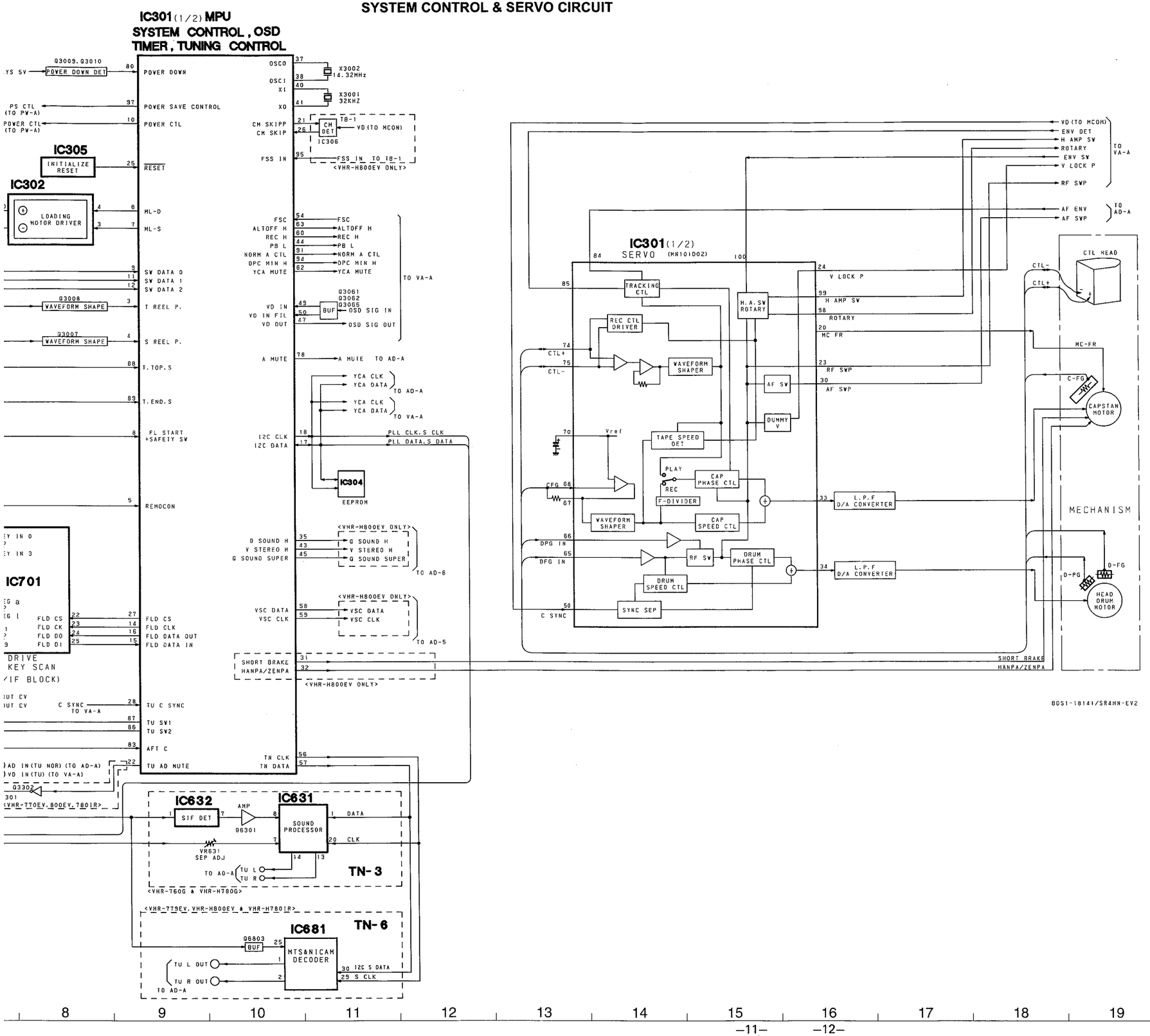


V1-18100/SR4HN-EV2

SYSTEM CONTROL & SERVO CIRCUIT



SYSTEM CONTROL & SERVO CIRCUIT



CP-1 BOARD (PW-A) POWER SUPPLY

PW-A
P1-18100/SR4HN-E2

CN501 F5001 T2.5AH250V

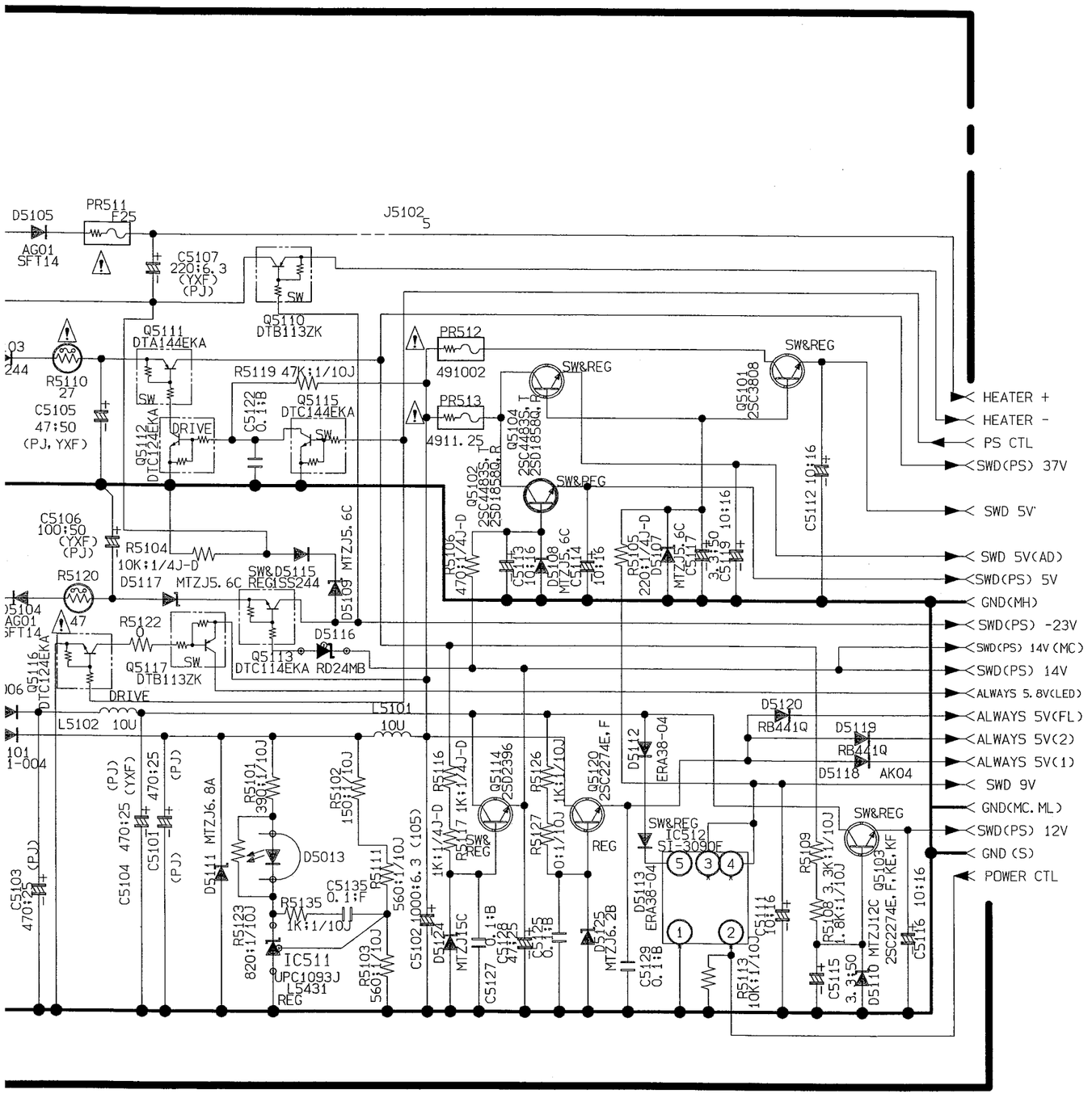
R5001 2.7M 1/2W
C5001 0.068UF AC250V AC275V
C5002 0.068UF AC250V AC275V
L5001 33mH
C5005 1000P AC250V
C5022 2200P;500B
C5010 47;400
D5001 DB155G S1WB(A)60 DI156S
C5007 1000P AC250V
R5003 1.5M;1/4J-D
R5002 1.5M;1/4J-D

D5105 AG01 SFT14
PR511 F25
C5107 220;6.3 (YXF) (PJ)
J5102 5
Q5110 DTB113ZK
D5103 1S5244
R5110 27
C5105 47;50 (PJ, YXF)
Q5111 DTA144EKA
Q5112 DTC124EKA
DRIVE
R5119 47K;1/10J
Q5115 DTC144EKA
C5122 0.1;B
PR512 491002
PR513 4911.25
SW&REG
Q5104 2SC4835, T 2SD1858O, R
Q5102 2SC4835, T 2SD1858O, R
Q5101 2SC3808
HEATER +
HEATER -
PS CTL
SWD(PS) 37V
SWD 5V
SWD 5V(AD)
SWD(PS) 5V
GND(MH)
SWD(PS) -23V
SWD(PS) 14V(MC)
SWD(PS) 14V
ALWAYS 5.8V(LED)
ALWAYS 5V(FL)
ALWAYS 5V(2)
ALWAYS 5V(1)
SWD 9V
GND(MC, ML)
SWD(PS) 12V
GND(S)
POWER CTL

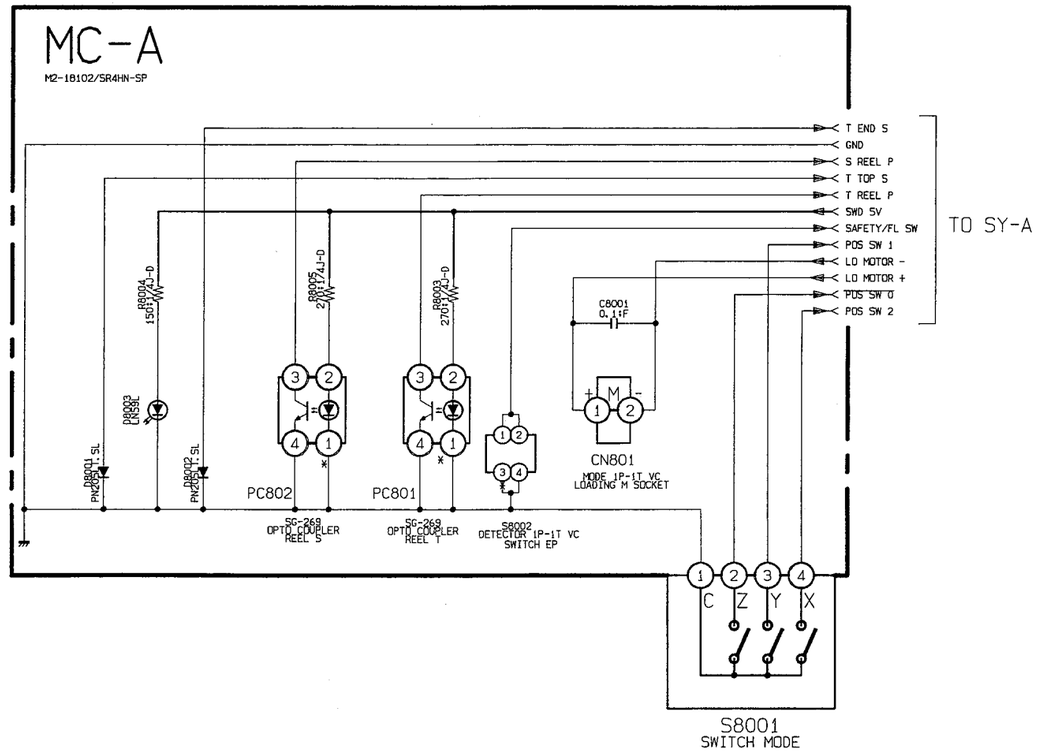
C5106 100;50 (YXF) (PJ)
R5104 10K;1/4J-D
SW&D5115
D5117 MTZJ5.6C REGISS244
R5120 47
D5104 AG01 SFT14
R5122
Q5116 DTC124EKA
Q5117 DTB113ZK
Q5113 DTC114EKA
D5116 RD24MB
D5102 RK306 ERA81-006
DRIVE
L5102 10U
L5101 10U
D5101 ERA81-004
R5106 470;1/4J-D
C5113 10;16
D5108 MTZJ5.6C
C5114 10;16
R5105 220;1/4J-D
D5107 MTZJ5.6C
C5117 3.3;50
C5119 10;16
C5112 10;16
D5120 RB441Q
D5119 RB441Q
D5118 AK04
D5112 ERA38-04
Q5114 2SD2396
Q5120 2SC2274E, F
R5126 1K;1/10J
R5127 0;1/10J
REG
IC502 S1-3090F
D5113 ERA38-04
R5109 3.3K;1/10J
R5108 1.8K;1/10J
C5115 3.3;50
Q5103 2SC2274E, F, KE, KF
D5110 MTZJ12C
C5116 10;16
C5111 10;16
R5113 10K;1/10J
C5129 0.1;B
D5125 MTZJ6.2B
C5128 0.1;B
C5125 47;16
C5126 0.1;B
C5127 0.1;B
D5124 MTZJ15C
R5102 150;1/10J
R5116 1K;1/4J-D
R5117 1K;1/10J
R5115 SW&REG
C5102 1000;6.3 (105)
R5135 1K;1/10J
C5135 0.1;F
R5123 820;1/10J
R5103 560;1/10J
IC511 UPC1093J L5431 REG
D5101 MTZJ6.8A
R5101 390;1/10J
C5103 470;25 (PJ)
C5104 470;25 (YXF)
C5101 470;25 (PJ)
D5111 MTZJ6.8A
D5013

R5011 150K;1/4J-D
R5012 150K;1/4J-D
R5015 1K;1/10J
IC501 MA8910
SWITCHING REG. MA8920
L5010 B.C.
C5012 3300P;1kH
soft drive circuit
C5011 4700P;1K-F
R5010 18K;1/10J
R5014 15K;1/10J
R5013 100K;1/4J-D
D5012 MTZJ5.6C
L5011 B.C.
D5011 AG01
D5010 AG01
C5013 1000P;1KV
R5017 2.7K;1/10J
D5013 PC123U ON3171R
T5001

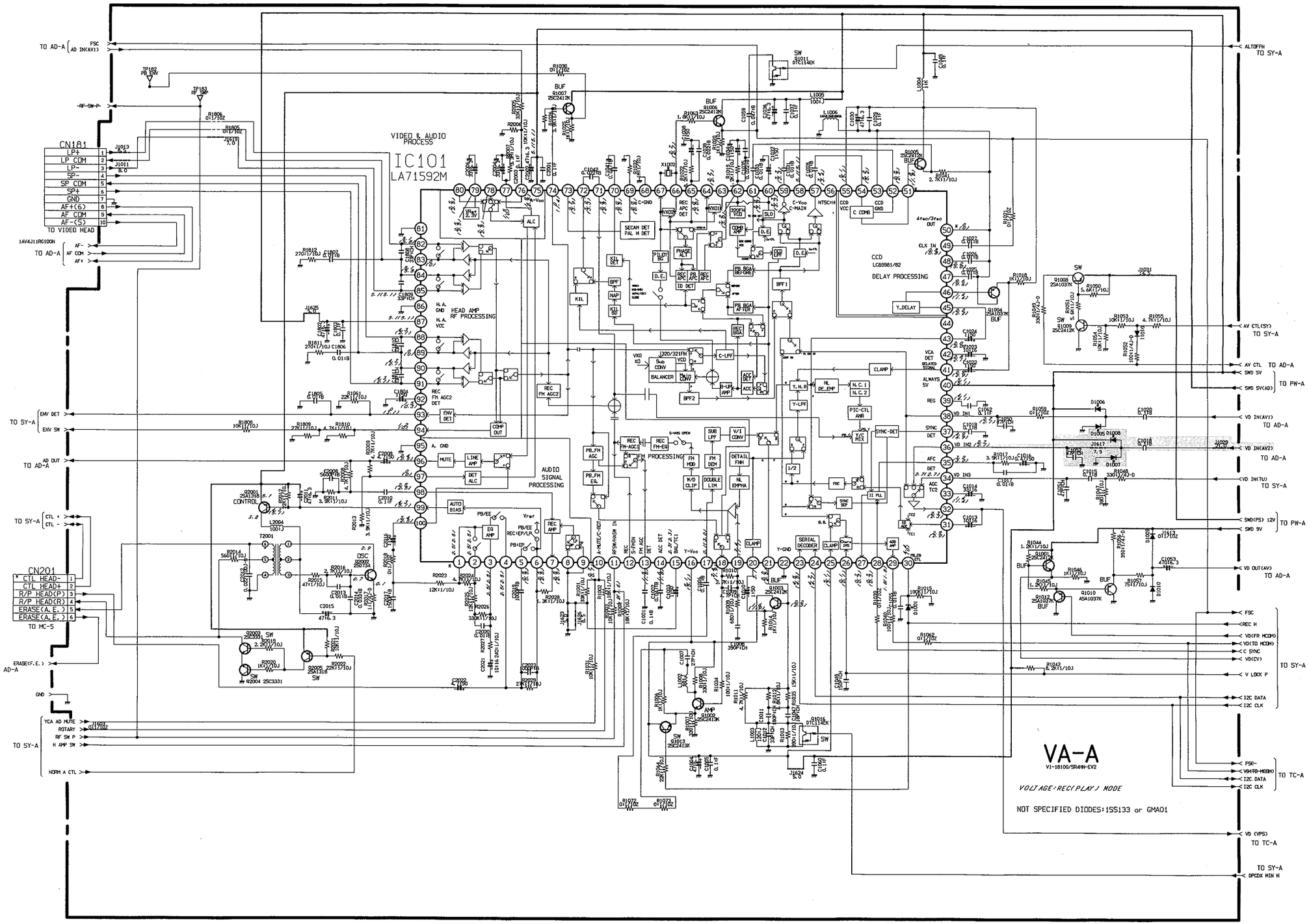
CP-1 BOARD (PW-A) POWER SUPPLY



CP-1 BOARD (MC-A) MECHANISM SENSOR



CP-1 BOARD (VA-A) VIDEO & AUDIO (EXCEPT VHR-H800EV)



NOTES:

——— : Common parts for all models.

The parts marked ▒▒▒ are VHR-H780G ONLY.

VIDEO

IC101 PLAY 100m

IC101 REC/ 100m

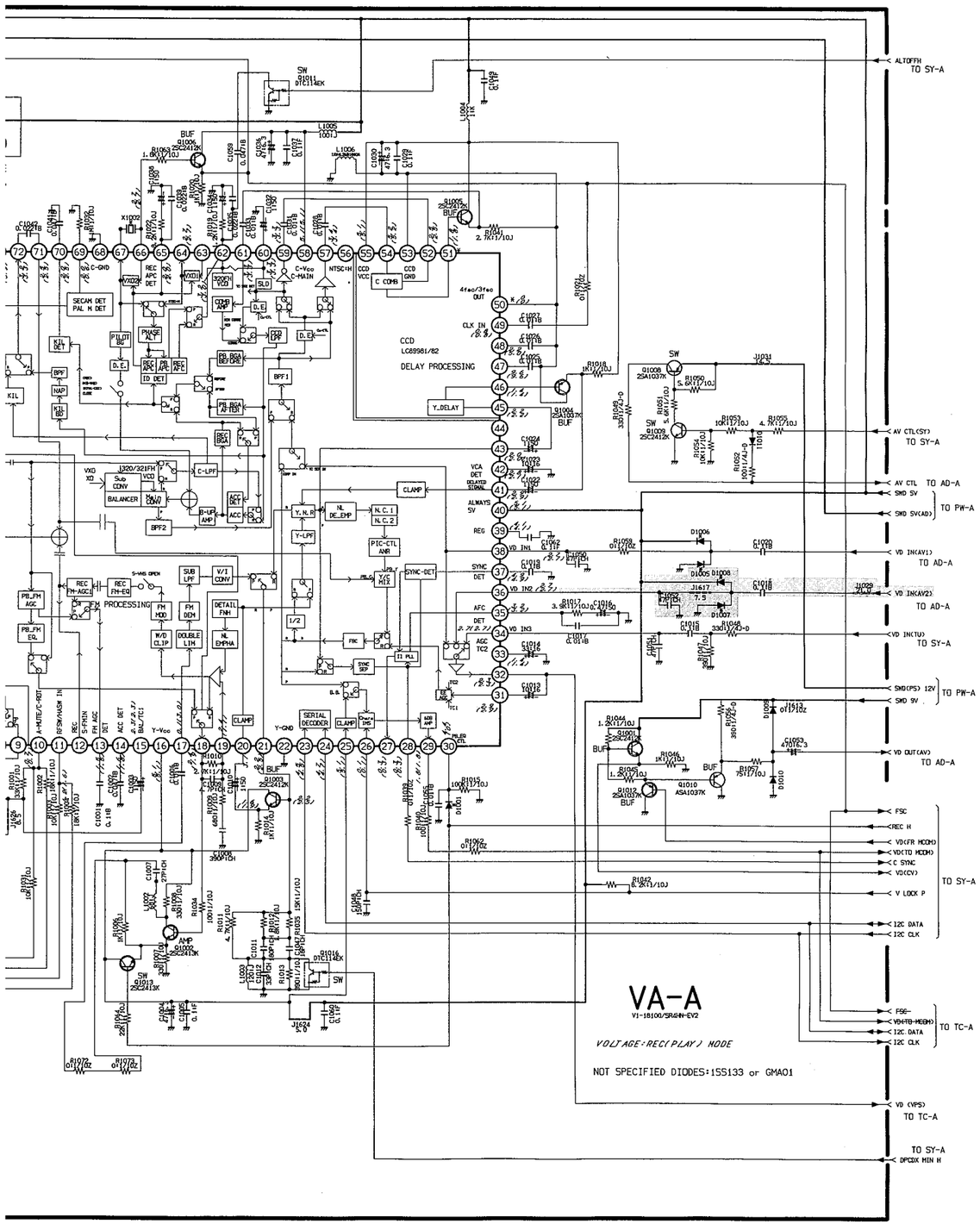
IC101 STILL 2V/2

IC101 REC/ 1V/2

IC101 REC/ 500m

IC101 REC 200m

IC101 REC/ 100m

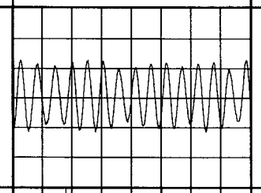
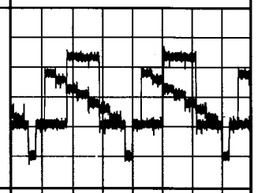
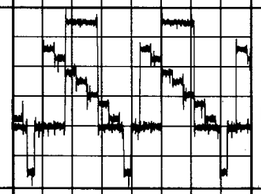
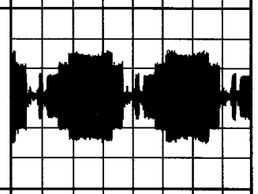
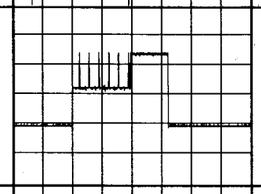
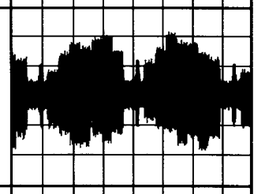
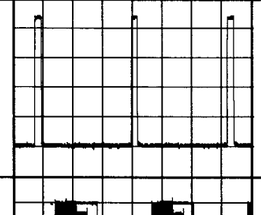
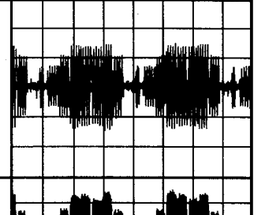
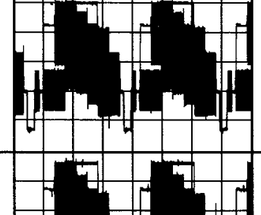
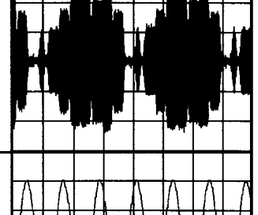
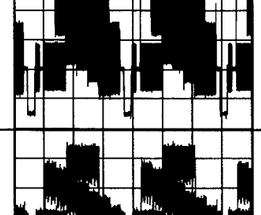
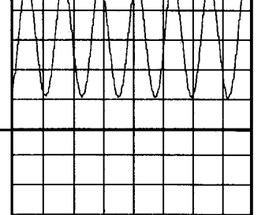


NOTES:

——— : Common parts for all models.

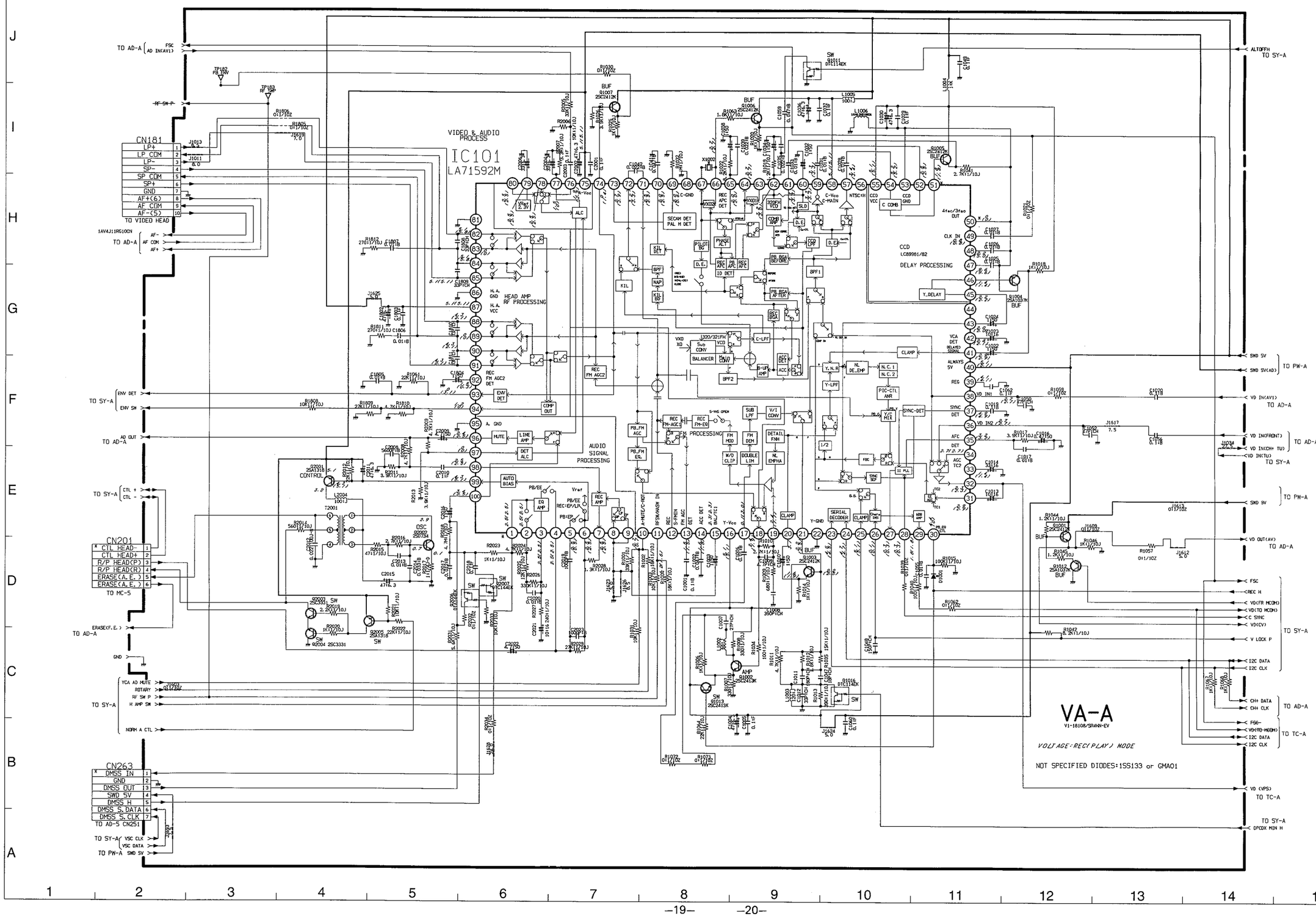
The parts marked ▒▒▒ are VHR-H780G ONLY.

VIDEO CIRCUIT WAVEFORMS

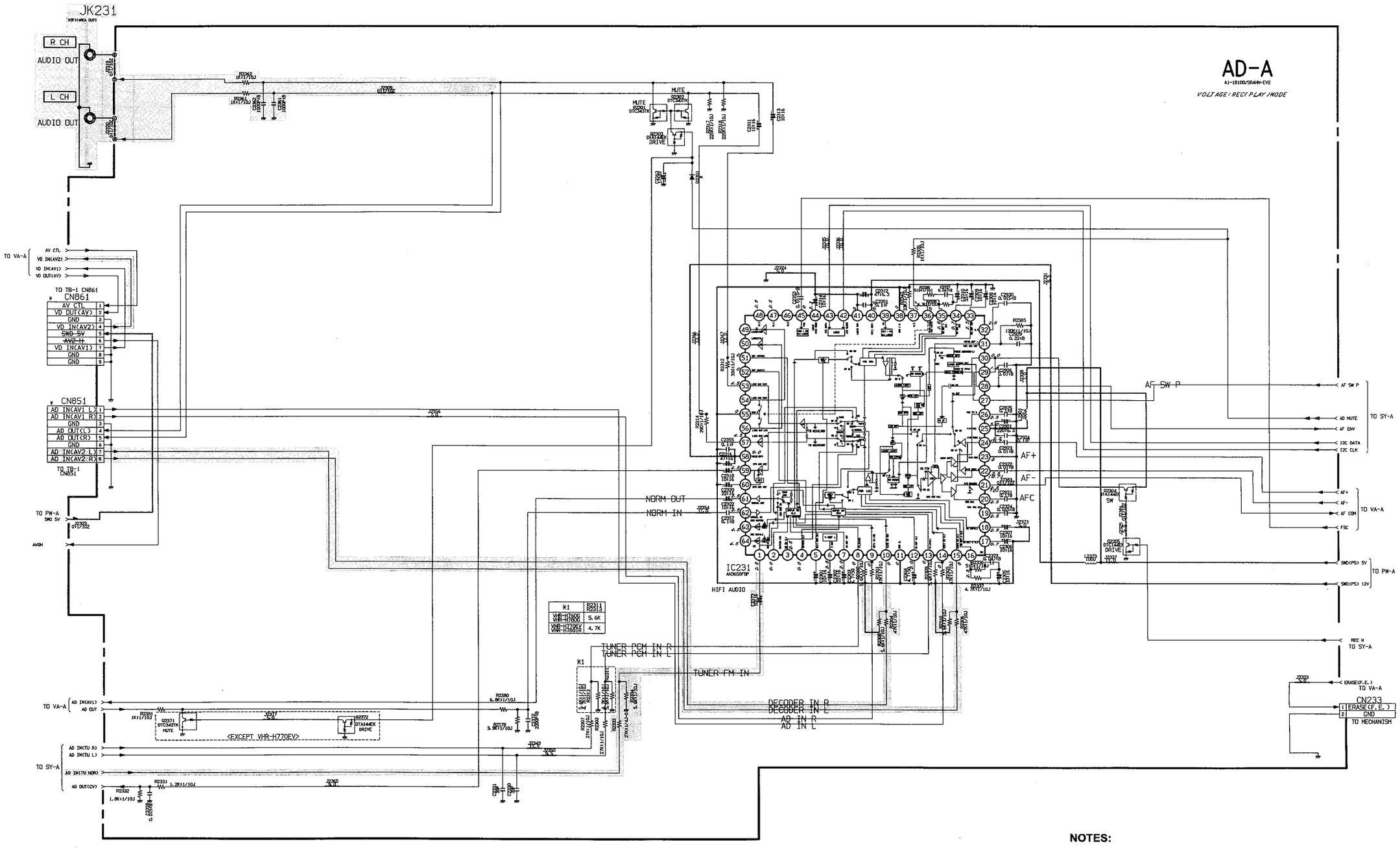
TEST LOCATION	WAVE FORM	TEST LOCATION	WAVE FORM
IC101 PIN17 PLAY 100mV/500ns/div		IC101 PIN43,45 REC/PLAY 100mV/20µs/div	
IC101 PIN20,21 REC/PLAY 100mV/20µs/div		IC101 PIN57,59 REC/PLAY 100mV/20µs/div	
IC101 PIN26 STILL 2V/200µs/div		IC101 PIN51,61 REC/PLAY 100mV/20µs/div	
IC101 PIN28 REC/PLAY 1V/20µs/div		IC101 PIN71,72 REC 100mV/20µs/div	
IC101 PIN29 REC/PLAY 500mV/20µs/div		IC101 PIN71,72 PLAY 100mV/20µs/div	
IC101 PIN34,36,38 REC 200mV/20µs/div		IC101 PIN90 REC 1V/200ns/div	
IC101 PIN41,46 REC/PLAY 100mV/20µs/div			

WF_V_SE4

CP-1 BOARD (VA-A) VIDEO & AUDIO (VHR-H800EV)



CP-1 BOARD (AD-A) HiFi AUDIO (EXCEPT VHR-H800EV)

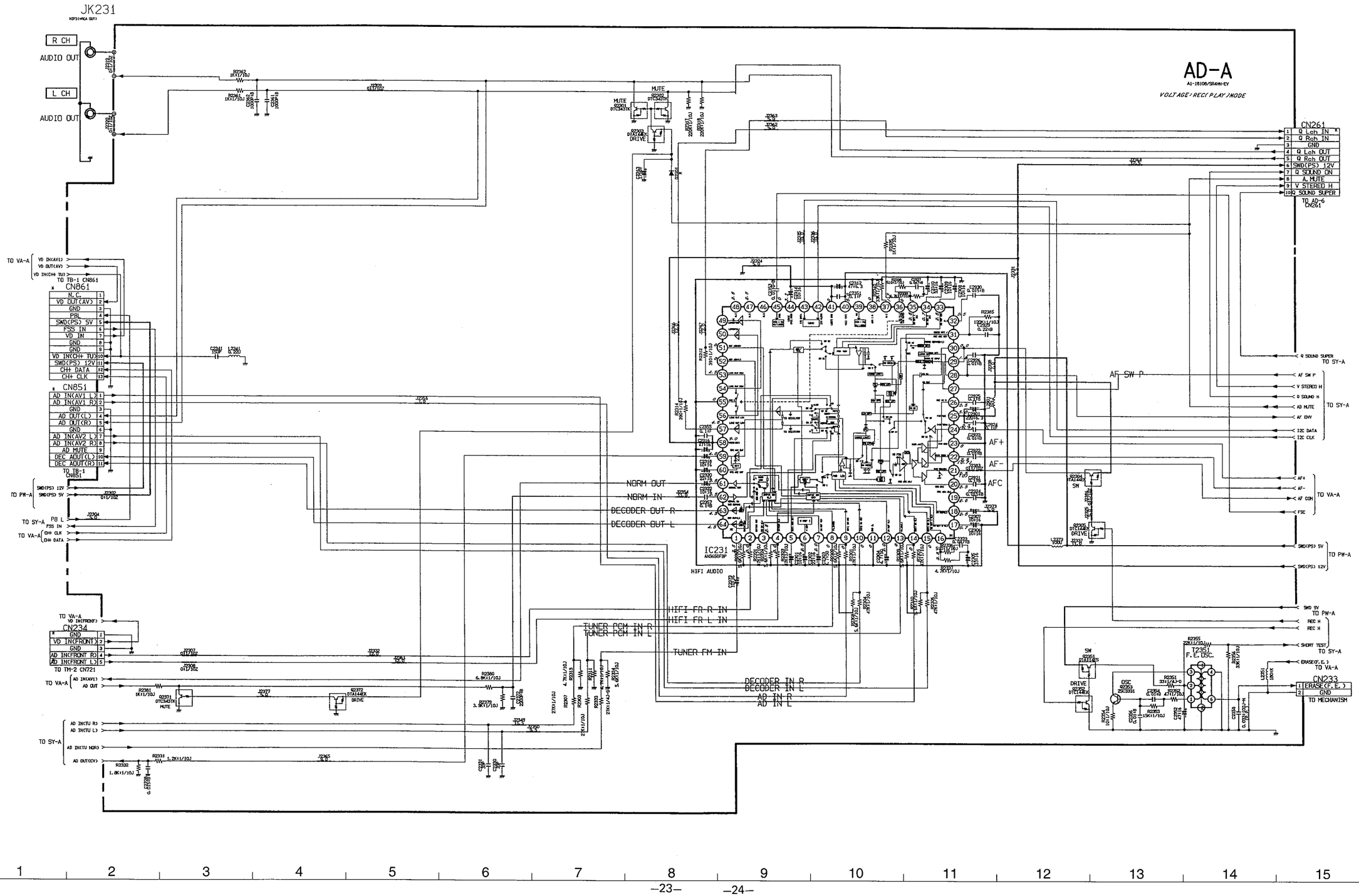


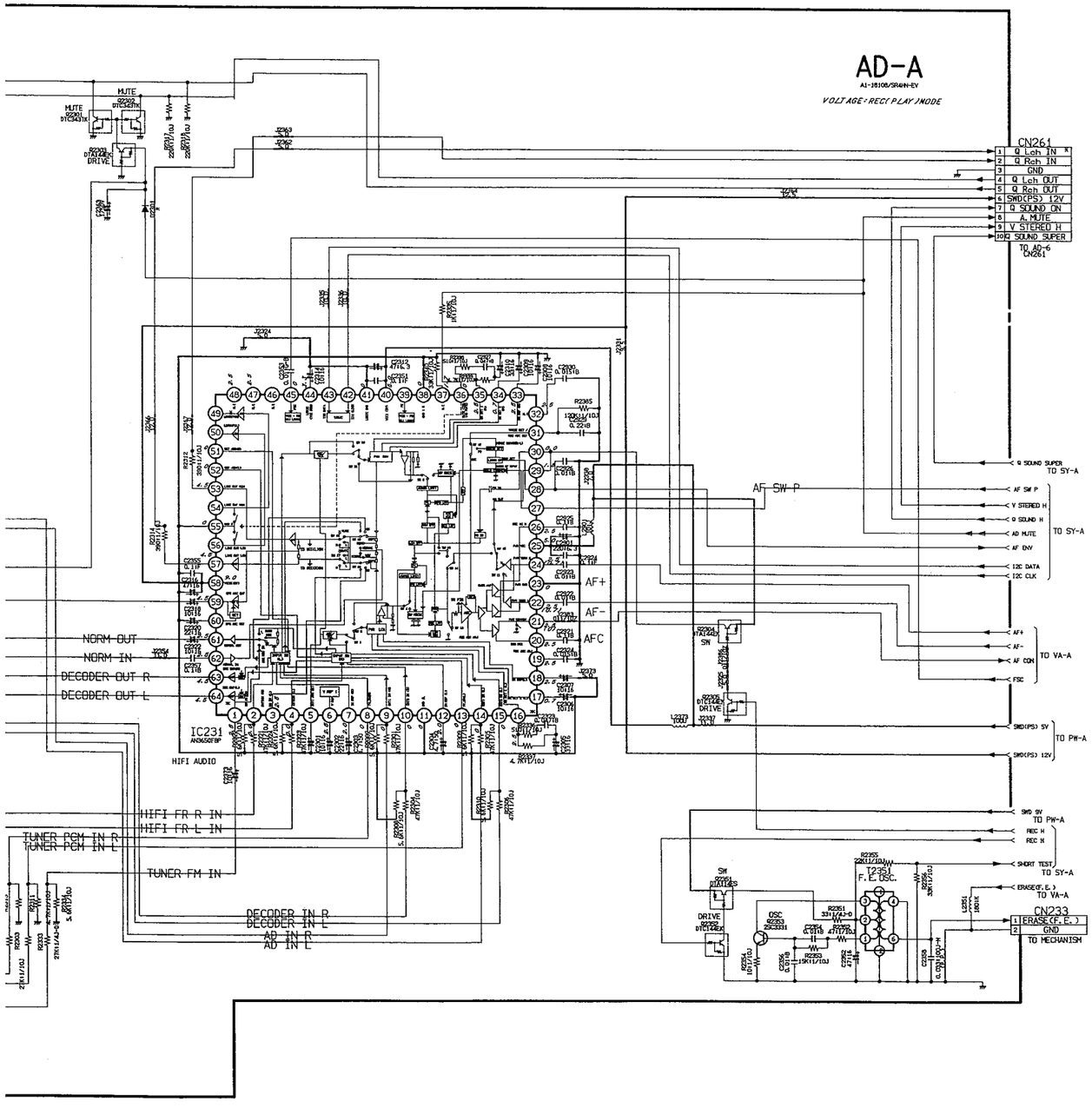
NOTES:

——: Common parts for all models.

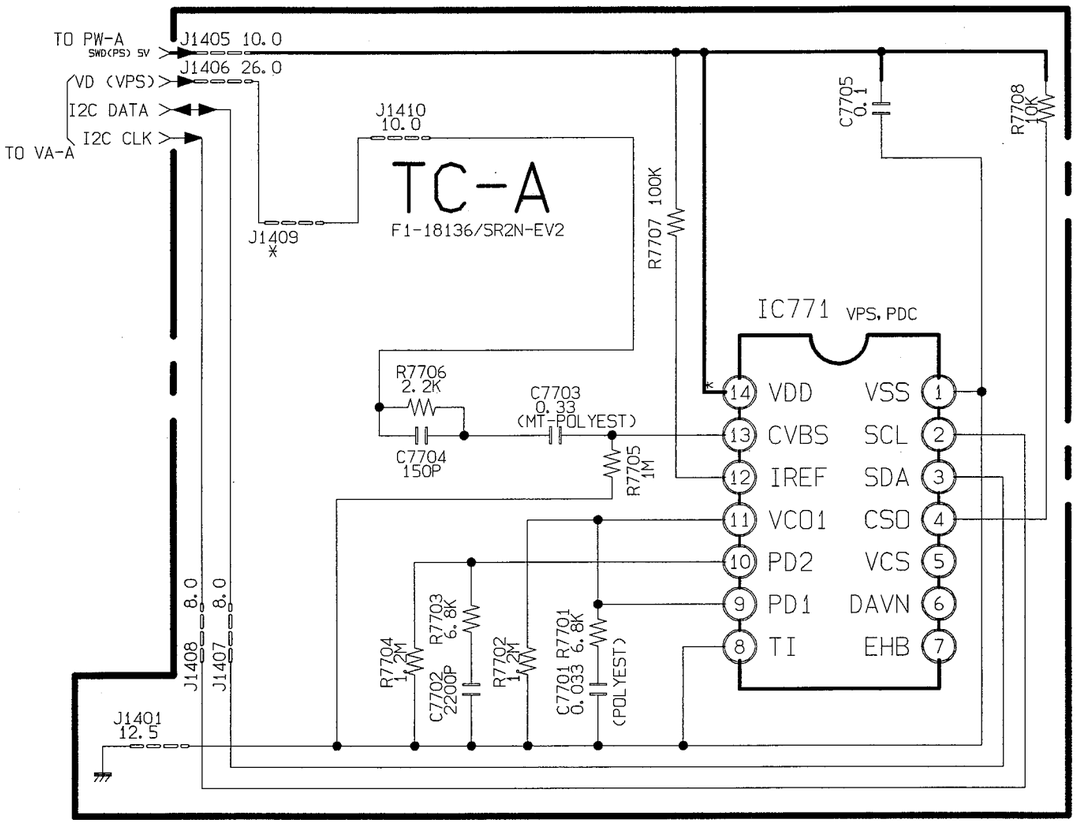
The parts marked ▒▒ are VHR-H780G ONLY.

CP-1 BOARD (AD-A) HiFi AUDIO (VHR-H800EV)

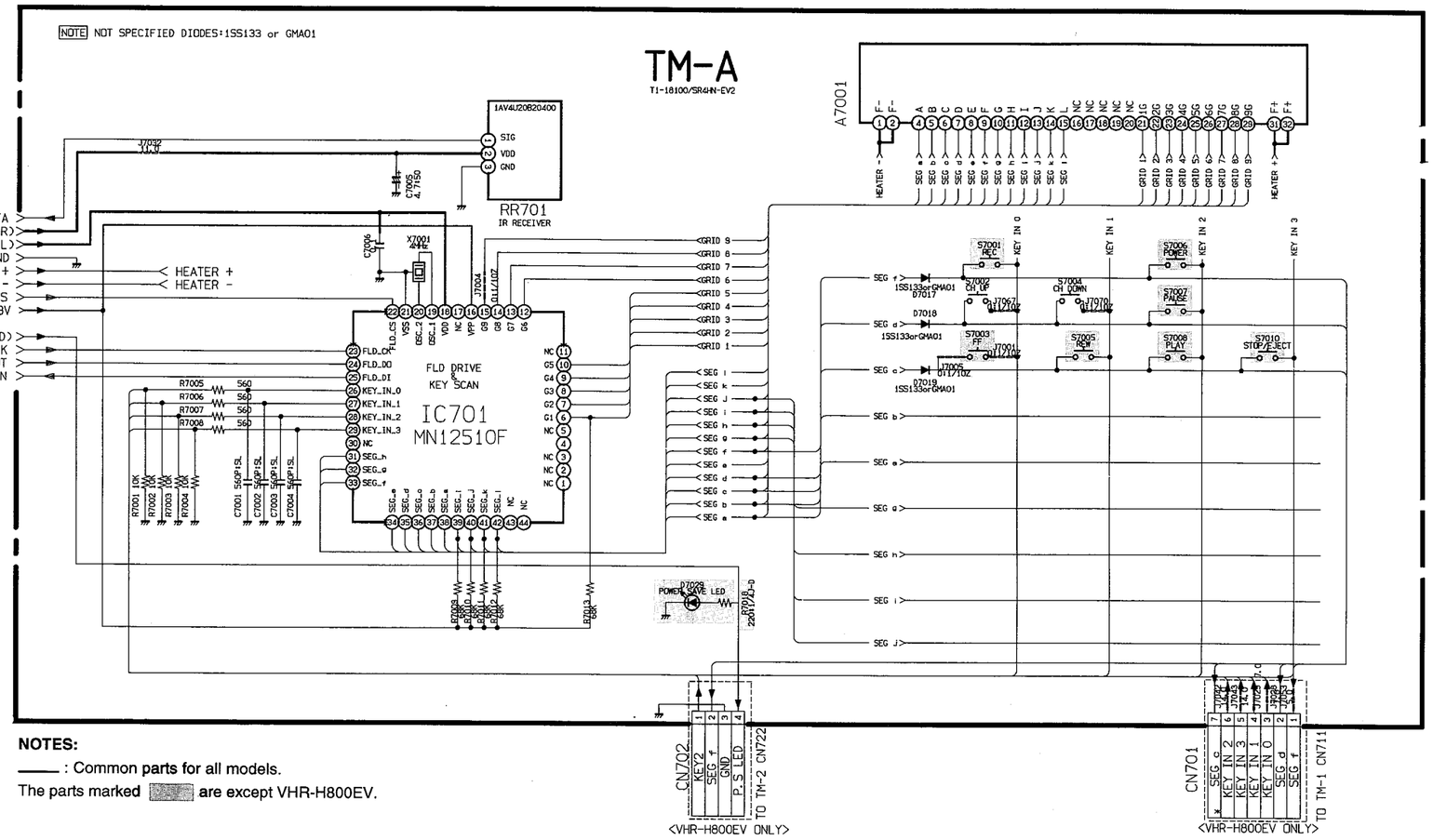




CP-1 BOARD (TC-A) VPS, PDC



CP-1 BOARD (TM-A) DISPLAY (FLD) & KEY SCAN

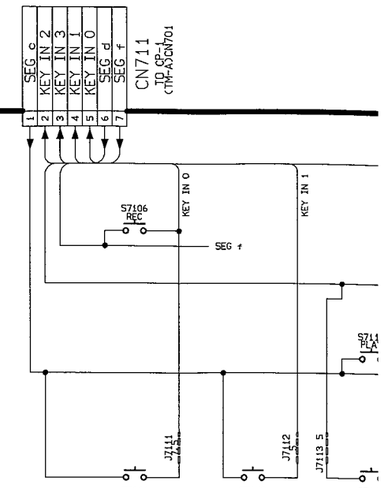


NOTES:

——— : Common parts for all models.

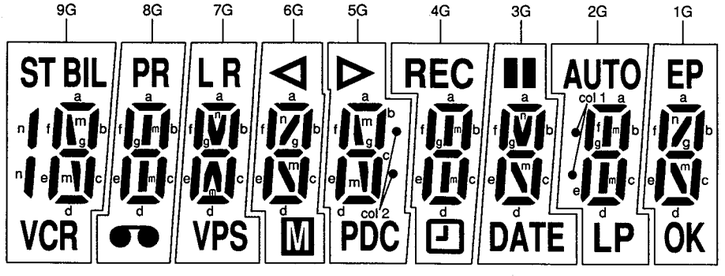
The parts marked ▒▒▒ are except VHR-H800EV.

TM-1 BOARD SWITCH (



A7001 DISPLAY (FLD) GRID/ANODE ASSIGNMENT DRAWING & TABLE

GRID & SEGMENT ASSIGNMENT

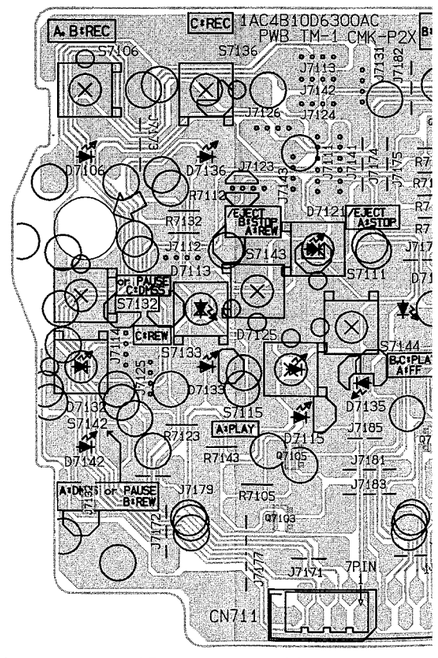


ANODE CONNECTION

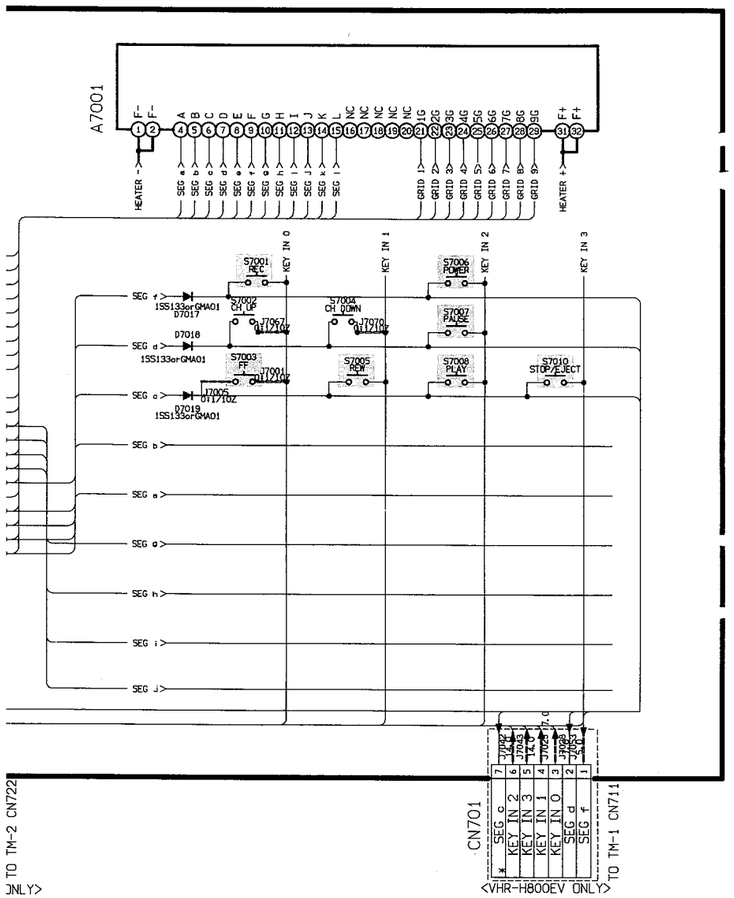
GRID / SEGMENT	9G	8G	7G	6G	5G	4G	3G	2G	1G
a	ST	PR	L	◁	▷	REC	▮▮	AUTO	EP
b	n	—	n	n	—	—	n	—	n
c	a	a	a	a	a	a	a	a	a
d	b	b	b	b	b	b	b	b	b
e	c	c	c	c	c	c	c	c	c
f	d	d	d	d	d	d	d	d	d
g	e	e	e	e	e	e	e	e	e
h	f	f	f	f	f	f	f	f	f
i	g	g	g	g	g	g	g	g	g
j	m	m	m	m	m	m	m	m	m
k	BIL	—	VPS	—	col 2	—	—	col 1	—
l	VCR	📼	R	M	PDC	⏎	DATE	LP	OK

GR-00800

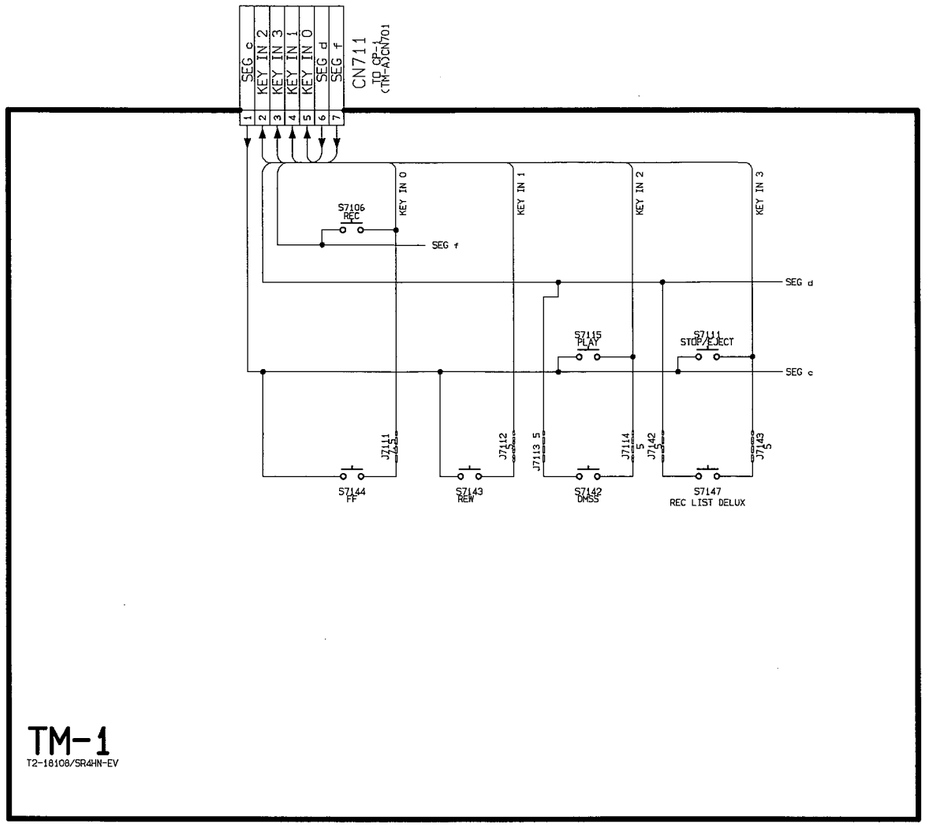
TM-1 P.W.B. (VHR-H800E



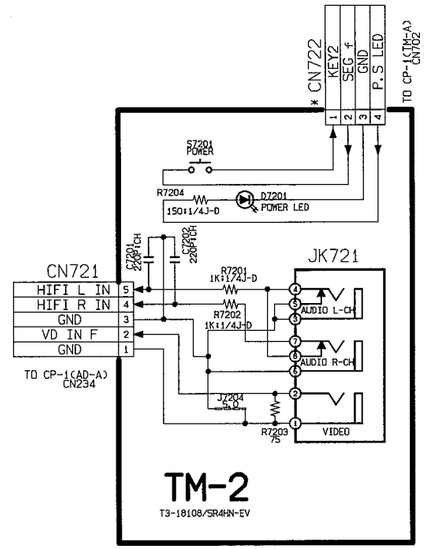
LD) & KEY SCAN



TM-1 BOARD SWITCH (VHR-H800EV)

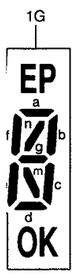


TM-2 BOARD SWITCH (VHR-H800EV)



GNMENT DRAWING & TABLE

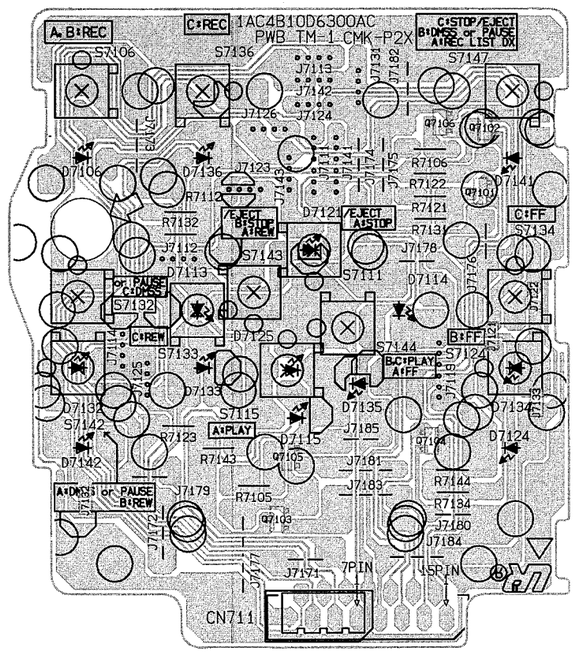
ANODE CONNECTION



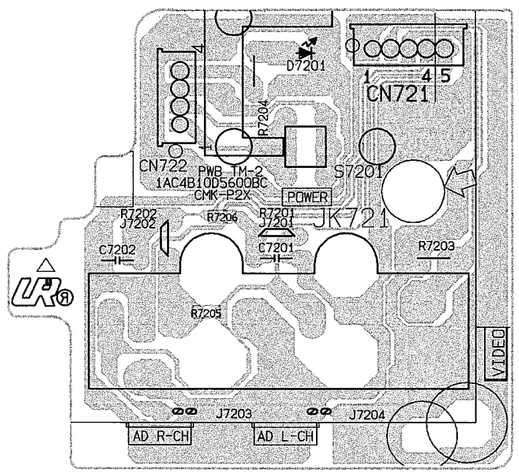
GRID / SEGMENT	9G	8G	7G	6G	5G	4G	3G	2G	1G
a	ST	PR	L	◁	▷	REC	▮▮	AUTO	EP
b	n	—	n	n	—	—	n	—	n
c	a	a	a	a	a	a	a	a	a
d	b	b	b	b	b	b	b	b	b
e	c	c	c	c	c	c	c	c	c
f	d	d	d	d	d	d	d	d	d
g	e	e	e	e	e	e	e	e	e
h	f	f	f	f	f	f	f	f	f
i	g	g	g	g	g	g	g	g	g
j	m	m	m	m	m	m	m	m	m
k	BIL	—	VPS	—	col 2	—	—	col 1	—
l	VCR	👓	R	Ⓜ	PDC	⏲	DATE	LP	OK

GR-00800

TM-1 P.W.B. (VHR-H800EV)



TM-2 P.W.B. (VHR-H800EV)



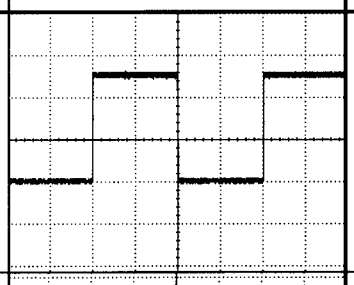
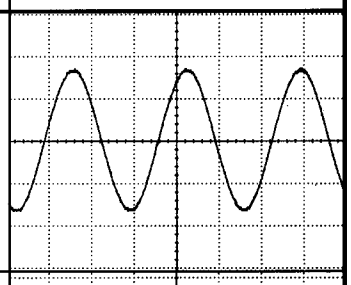
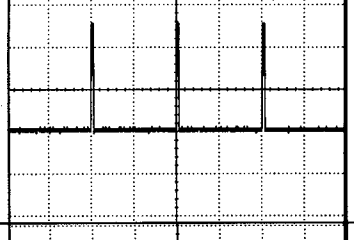
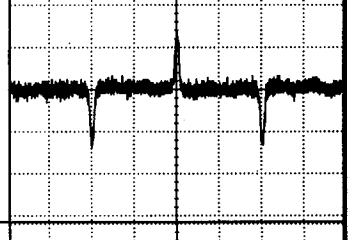
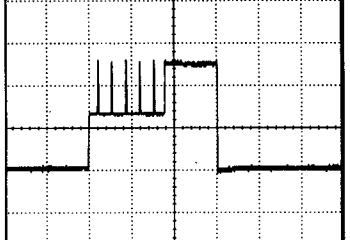
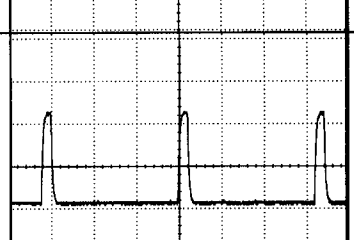
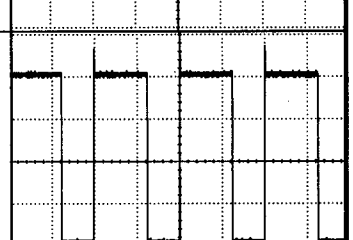
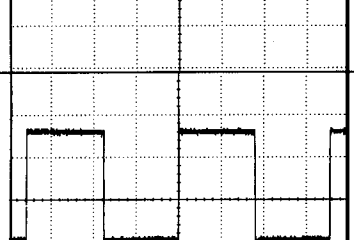
IC301 SYSTEM/TIMER/TUNING & SERVO CONTROL MPU PIN FUNCTION TABLE

No.	Name	I/O	H/L	Signal Function
1	GND	-	-	Ground terminal
2	OPEN	-	-	-
3	T REEL P	I	-	Pulse signal from take up reel moving sensor.
4	S REEL P	I	-	Pulse signal from supply up reel moving sensor.
5	REMOCON IN	I	-	Remote control signal input.
6	ML-D	O	-	Loading motor rotation indication signal. (Load "H", Brake "M", Unload "L")
7	ML-S	O	-	Loading motor rotation speed indication signal. (High "H", Middle "M", Low "L")
8	FLSTART + SAFETY	I	L	Switch input indicating start of cassette loading or discharge by cassette mechanism and detecting accidental erasure prevention tab of cassette tape.
9	SW0	I	-	Data indicating operation position of mechanism.
10	POWER UP	O	H	High output except when power is off.
11	SW1	I	-	Data indicating operation position of mechanism.
12	SW2	I	-	Data indicating operation position of mechanism.
13	REMOCON OUT	-	-	-
14	FLD SCLK	O	-	Clock pulse for FLD display drive IC,
15	FLD SDIN	I	-	Data signal input from FLD display drive IC,
16	FLD SDOT	O	-	Data signal output to FLD display drive IC,
17	I2C DAT	O	-	Control signal output to tuner, video-audio and HiFi audio IC.
18	I2C CLK	O	-	Clock signal output to tuner, video-audio and HiFi audio IC.
19	N.C.	-	-	-
20	MC F/R	O	-	Capstan motor rotation (normal/reverse) indication signal. (reverse H)
21	CM SKIP P	O	-	Timing pulse to detect the CM.
22	TU AD MUTE	O	H	Signal disable tuner audio signal output.
23	RF SW P	O	-	RF switching pulse created by head drum PG.
24	QVD	O	-	Quasi vertical synchronizing signal.
25	RESET	I	L	Initial reset terminal for this IC.
26	CM SKIP IN	I	H	Signal indicating the CM.
27	FLD CS	O	H	Chip select signal to FLD display drive IC.
28	TU C-SYNC	I	-	Composite synchronizing signal input.
29	CLK ADJ	-	-	-
30	AF SW P	O	-	AF switching pulse created by head drum PG.
31	BRAKE P	O	H	Break signal for capstan motor.
32	HANPA/ZENPA	O	-	Signal to switch capstan motor speed control. Hanpa= H(high speed) / Zenpa= L(Normal speed)
33	MC-PWM	O	-	Output of capstan motor servo control signal. (PWM signal)
34	MH-PWM	O	-	Output of head drum motor servo control signal. (PWM signal)
35	Q SOUND H	O	H	Signal to indicate "Q sound" is on.
36	VDD	-	-	Back up 5V
37	OSCO	O	-	IC clock OSC terminal.
38	OSCI	I	-	14.318MHz
39	VSS	-	-	Ground terminal
40	XI	I	-	IC timer clock OSC terminal.
41	XO	O		32.768KHz
42	VDD	-	-	-
43	V STEREO H	O	H	Quasi stereo sound mode indicating signal.
44	PB-L	O	L	Signal for indicating playback mode.
45	Q SOUND SUPER	O	H	Signal for indicating "Q sound" effect is strong.
46	N.C.	-	-	-
47	VD OUT	O	-	Video output signal from on screen display circuit.
48	VSS2	-	-	Ground terminal.
49	VD IN	I		Video input signal to on screen display circuit.
50	VD IN FILTER	I		Video input signal to on screen display circuit and servo circuit.

No.	Name	I/O	H/L	Signal Function
51	VDD2	-	-	Always 5V
52	AFCC	-	-	-
53	AFCLPF	-	-	-
54	FSC IN	I	-	Fsc (for on screen dispay circuit) OSC terminal.
55	FSC OUT	O	-	
56	TN CLK	O	-	Clock signal to control MTS and NICAM decoder.
57	TN DATA	O	-	Data signal to control MTS and NICAM decoder.
58	VSC DATA	O	-	Data to VSC(DMSS) control.
59	VSC CLK	O	-	Clock to VSC(DMSS) control.
60	REC H	O	H	Signal to indicate recording mode.
61	VD MUTE	O	H	Signal disable video signal output.
62	YCA MUTE	O	L	Signal disable video or audio signal output.
63	ALT OFF H.	O	H	Signal to switch the time-constant of APC circuit while special play mode.
64	GND	-	-	Ground
65	DFG SIG IN	I	-	Head drum FG pulse input.
66	PG SIG IN	I	-	Head drum PG(phase) pulse input.
67	FG OUT	O	-	Head drum FG amp output.
68	CFG SIG IN	O	-	Capstan FG pulse input.
69	AMP BIAS	O	-	Bias voltage for DFG amp.
70	VRI	O	-	-
71	AVSS	-	-	Ground terminal.
72	CTLA	-	-	-
73	AVDD	O	-	Always 5V.
74	CTL+	I/O	-	Control pulse I/O.
75	CTL-	I/O	-	Control pulse I/O.
76	CO	-	-	Time constant of noise filter for control pulse.
77	ROM OP	-	-	-
78	AD MUTE	O	H	Signal disable audio signal output.
79	N.C.	-	-	-
80	POWER DOWN	I	L	Power failure detection circuit.
81	N.C.	-	-	-
82	N.C.	-	-	-
83	AFT C	I	-	Tuner AFT S-curve signal for tuner AFT control.
84	AF ENV	I	-	HiFi audio head envelope detection signal input.
85	VD ENV	I	-	Video head envelope detection signal input for ATR function.
86	TU SW2	O	-	Detect the system of RF out. (PALI H)
87	TU SW1	O	-	Detect the system of RF out. (PALDK H)
88	T TOP S	I	L	Sensor signal input for tape beginning detection.
89	T END S	I	L	Sensor signal input for tape end detection.
90	SHORT TEST	I	L	Audio record mode indicating signal input.
91	NORM A CTL	O	-	H during normal audio recording.
92	N.C.	-	-	-
93	N.C.	-	-	-
94	DPCDX MIN H	O	H	H is output during DPC (picture) is most soft.
95	FSS IN	I	-	CH+ mode control signal input.
96	AVCTL (SY)	O	H	AV control signal output.
97	PS CTL	O	-	Power save control signal output.
98	ROTARY	O	-	Video head CH1/CH2 confirmation signal. Used in the processing of image circuit color signals.
99	H AMP SW	O	-	Main head and sub head switching signal.
100	ENV SW	I	-	Input comparatione signal for main head and sub head.

SR_IC301_A

SERVO CIRCUIT WAVEFORMS

TEST LOCATION	WAVEFORM	TEST LOCATION	WAVEFORM
IC301 PIN 23 REC/PB RF SWP 2V/div. 10ms/div.		IC301 PIN 65 REC/PB DFG 500mV/div. 500μs/div.	
IC301 PIN 24 STILL 2V/div. 10ms/div.		IC301 PIN 66 REC/PB DPG 100mV/div. 10ms/div.	
IC301 PIN 24 STILL V LOCK 2V/div. 200μs/div.		IC301 PIN 67 REC/PB CFG OUT 200mV/div. 500μs/div.	
IC301 PIN 28 REC/PB C-SYNC 2V/div. 20μs/div.		IC301 PIN 74 REC CTL+ 1V/div. 20ms/div.	
IC301 PIN 33,34 REC/PB 2V/div. 5μs/div.			

WF-S-AF4H-Z

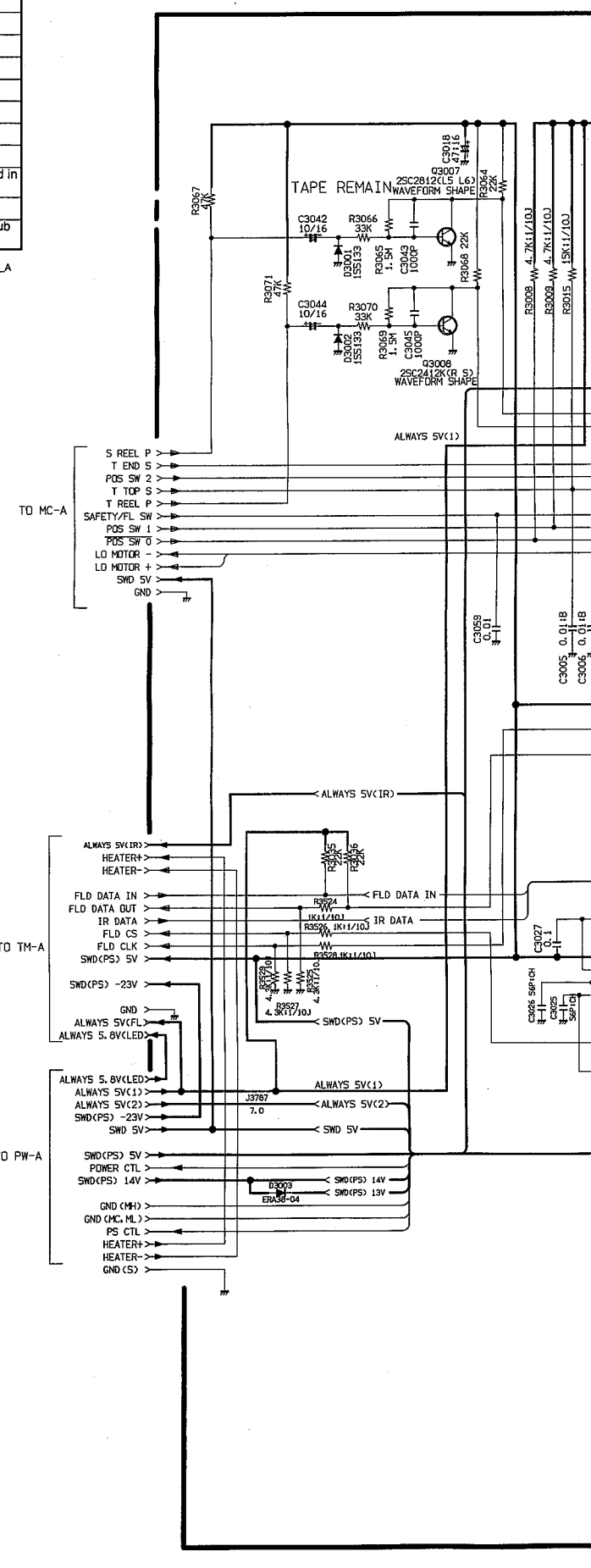
NOTES:

——— : Common parts for all models.

The parts marked ▒▒ are VHR-H770EV, VH

The parts marked ——— are VHR-H800EV ON

The parts marked ▒▒ are VHR-H760G & V



L MPU PIN FUNCTION TABLE

Name	I/O	H/L	Signal Function
VDD2	-	-	Always 5V
AFCC	-	-	-
AFCLPF	-	-	-
FSC IN	I	-	Fsc (for on screen dispay circuit) OSC terminal.
FSC OUT	O	-	
TN CLK	O	-	Clock signal to control MTS and NICAM decoder.
TN DATA	O	-	Data signal to control MTS and NICAM decoder.
VSC DATA	O	-	Data to VSC(DMSS) control.
VSC CLK	O	-	Clock to VSC(DMSS) control.
REC H	O	H	Signal to indicate recording mode.
VD MUTE	O	H	Signal disable video signal output.
YCA MUTE	O	L	Signal disable video or audio signal output.
ALT OFF H.	O	H	Signal to switch the time-constant of APC circuit while special play mode.
GND	-	-	Ground
DFG SIG IN	I	-	Head drum FG pulse input.
PG SIG IN	I	-	Head drum PG(phase) pulse input.
FG OUT	O	-	Head drum FG amp output.
CFG SIG IN	O	-	Capstan FG pulse input.
AMP BIAS	O	-	Bias voltage for DFG amp.
VRI	O	-	-
AVSS	-	-	Ground terminal.
CTLA	-	-	-
AVDD	O	-	Always 5V.
CTL+	I/O	-	Control pulse I/O.
CTL-	I/O	-	Control pulse I/O.
CO	-	-	Time constant of noise filter for control pulse.
ROM OP	-	-	-
AD MUTE	O	H	Signal disable audio signal output.
N.C.	-	-	-
POWER DOWN	I	L	Power failure detection circuit.
N.C.	-	-	-
N.C.	-	-	-
AFT C	I	-	Tuner AFT S-curve signal for tuner AFT control.
AF ENV	I	-	HiFi audio head envelope detection signal input.
VD ENV	I	-	Video head envelope detection signal input for ATR function.
TU SW2	O	-	Detect the system of RF out. (PALI H)
TU SW1	O	-	Detect the system of RF out. (PALDK H)
T TOP S	I	L	Sensor signal input for tape beginning detection.
T END S	I	L	Sensor signal input for tape end detection.
SHORT TEST	I	L	Audio record mode indicating signal input.
NORM A CTL	O	-	H during normal audio recording.
N.C.	-	-	-
N.C.	-	-	-
DPCDX MIN H	O	H	H is output during DPC (picture) is most soft.
FSS IN	I	-	CH+ mode control signal input.
AVCTL (SY)	O	H	AV control signal output.
PS CTL	O	-	Power save control signal output.
ROTARY	O	-	Video head CH1/CH2 confirmation signal. Used in the processing of image circuit color signals.
H AMP SW	O	-	Main head and sub head switching signal.
ENV SW	I	-	Input comparatione signal for main head and sub head.

SR_IC301_A

CP-1 BOARD (SY-A) SYSTEM CO

NOTES:

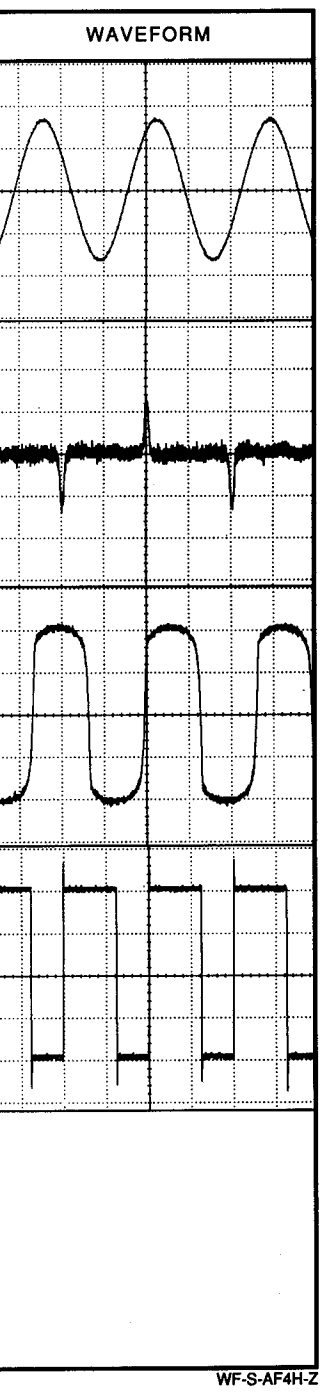
——— : Common parts for all models.

The parts marked ▒▒ are VHR-H770EV, VHR-H800EV & VHR-H780IR

The parts marked ——— are VHR-H800EV ONLY.

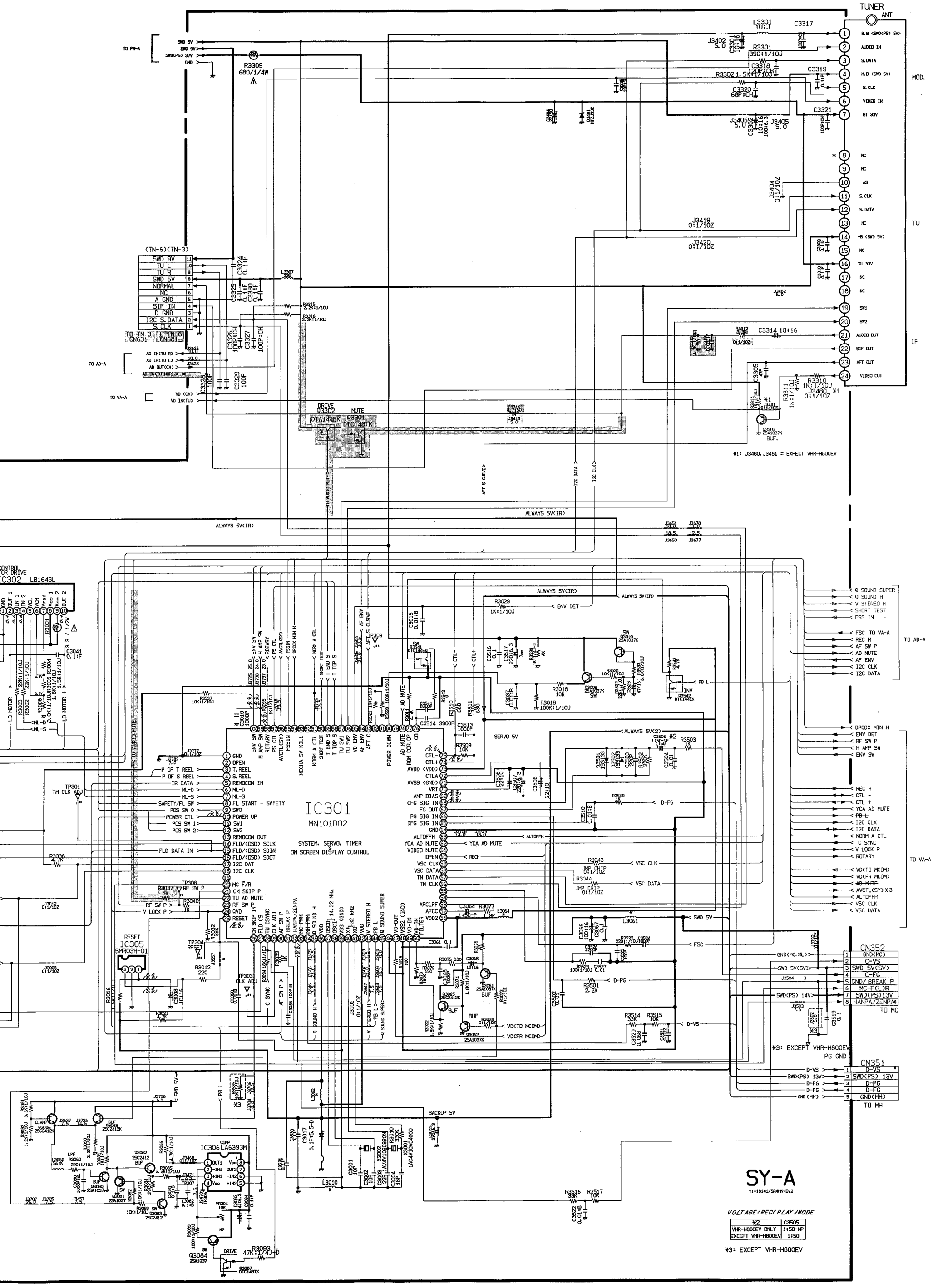
The parts marked ▒▒ are VHR-H760G & VHR-H780G.

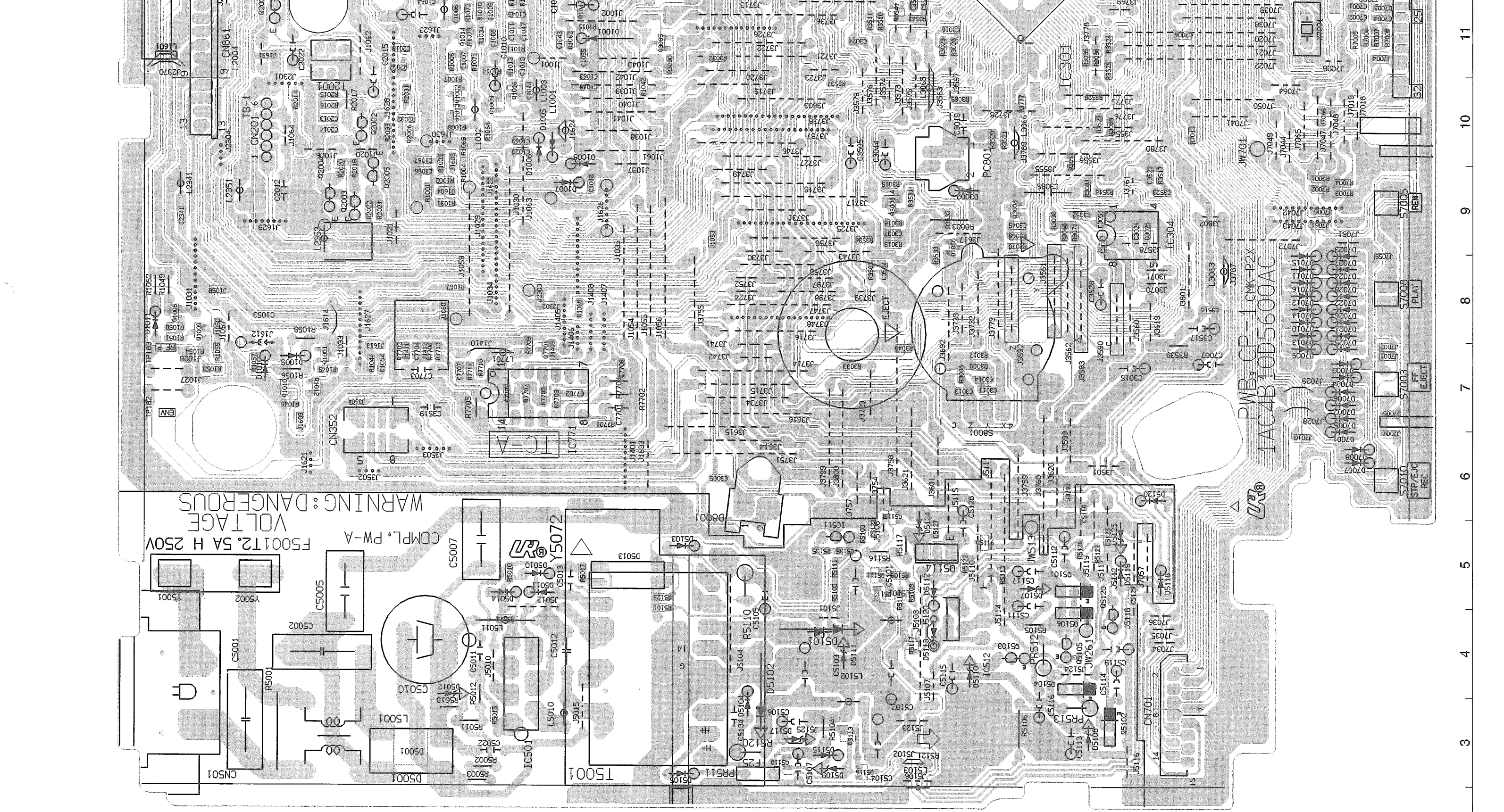
WAVEFORM



WF-S-AF4H-Z

CP-1 BOARD (SY-A) SYSTEM CONTROL, TIMER, TUNER, OSC & SERVO

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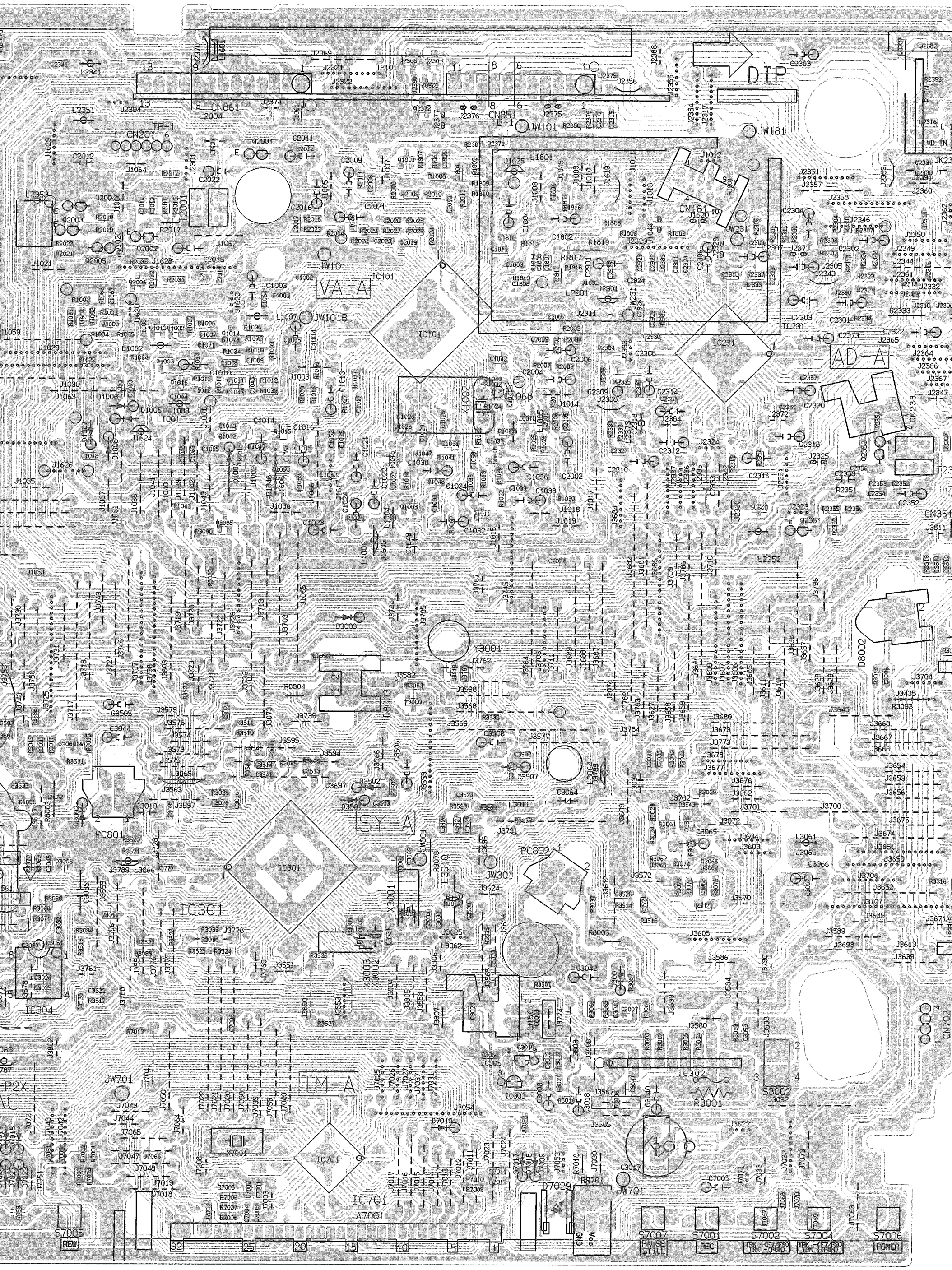
IC-A
IC771
IC501
T5001
Y5072
PC801
IC304
JW701
JW261
CN352
CN701
CN861
CN201
CN501
S7005
S7008
S7003
S7010
REW
PLAY
FF EJECT
STP/EJC REC
EJECT

CP-1 P.W.B.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IC303
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JW231
JW301
JW701
CN861
CN851
CN181
CN233
CN351
CN702
TB-1
S7005
REW
S7007
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S7001
REC
S7002
S7004
S7006
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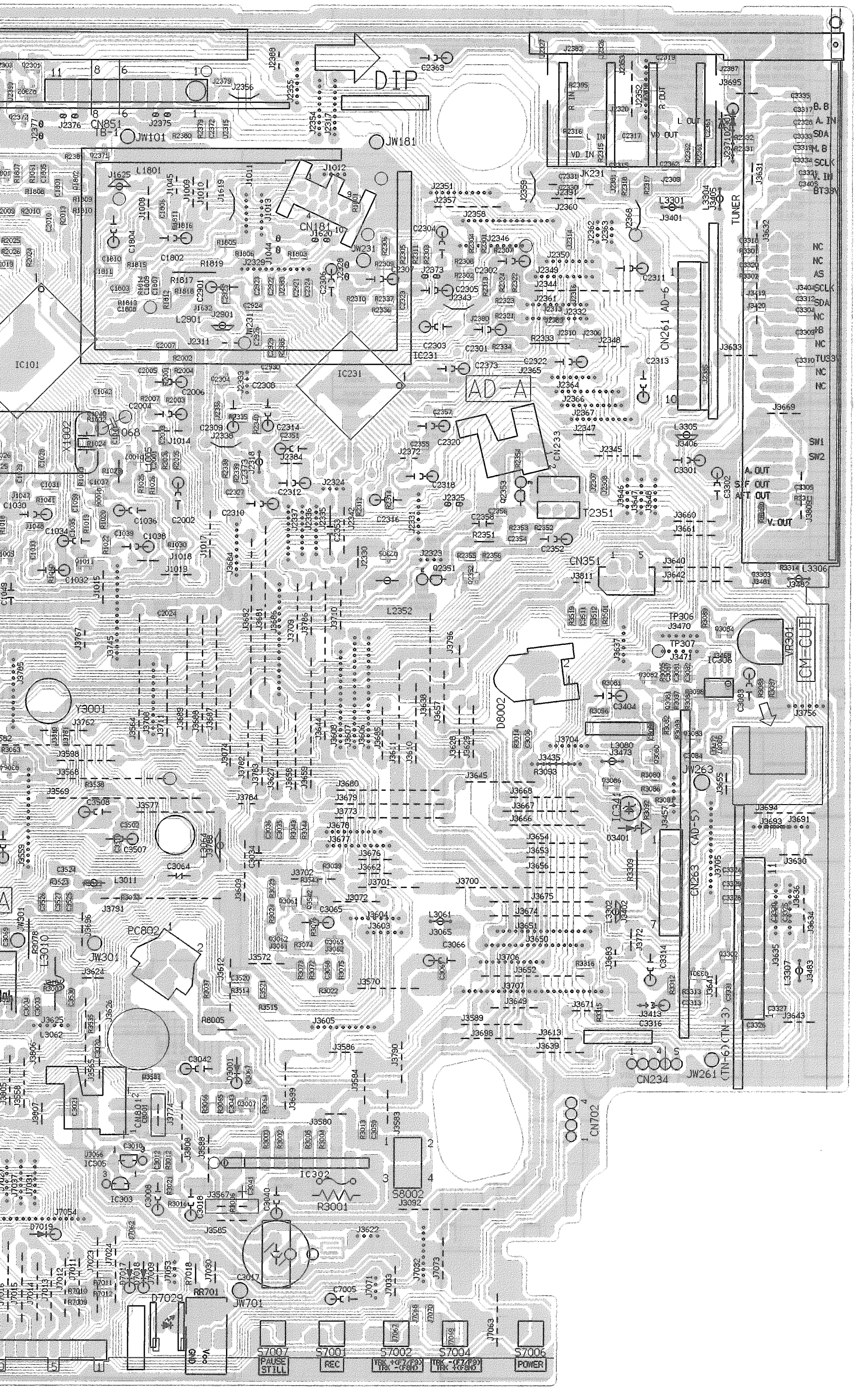
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CN234
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(TN-6)(TN-3)
CN702
TUNER
L3301
L3306
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IC303
IC302
S8002
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Y3001
X1002
L2901
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L1801
IC341
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S7007
PAUSE
STILL
S7001
REC
S7002
TRK +(F7/F9)
TRK -(FOND
S7004
TRK -(F7/F9)
TRK +(FOND
S7006
POWER
A. OUT
SIF OUT
AFT OUT
V. OUT
L OUT
R OUT
R IN
L IN
VD IN
VD OUT
B. B
A. IN
SDA
M. B
SCLK
V. IN
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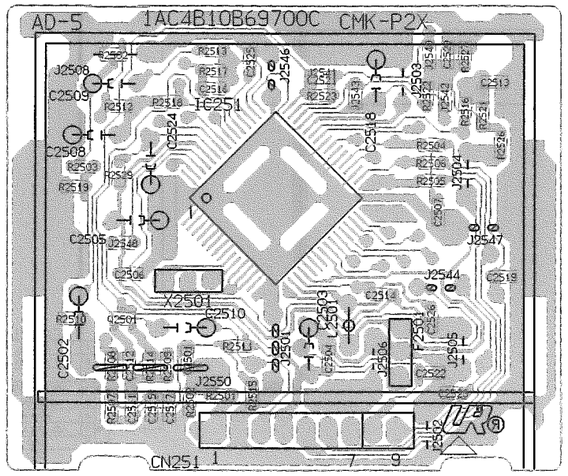
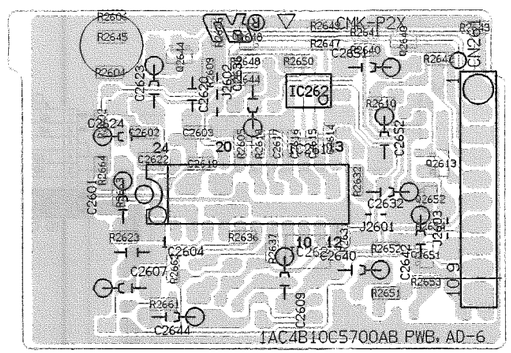
NC
AS
TU33
SW1
SW2

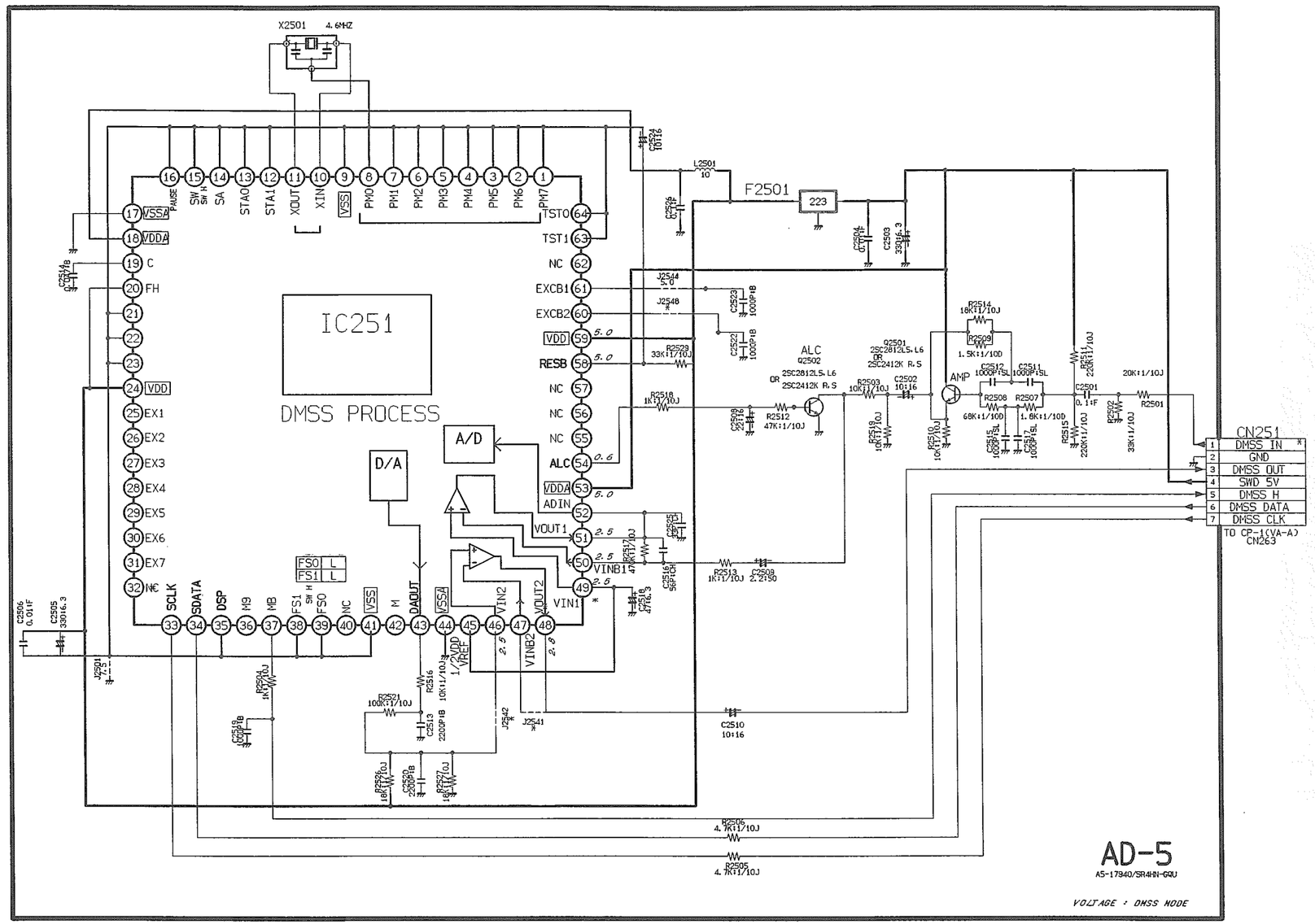
AD-6 P.W.B. (VHR-H800EV)



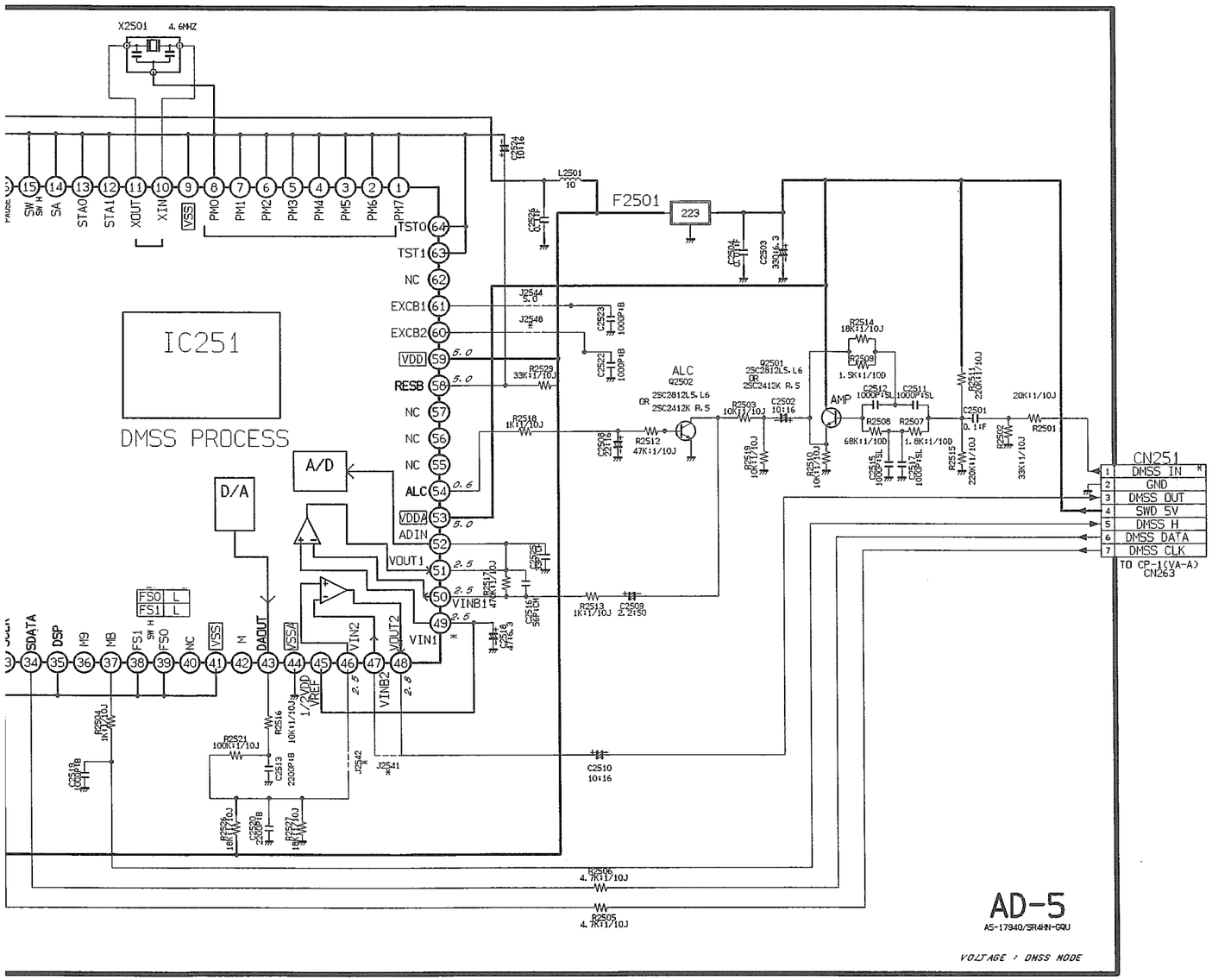
AD-6 P.W.B. (VHR-H800SP)



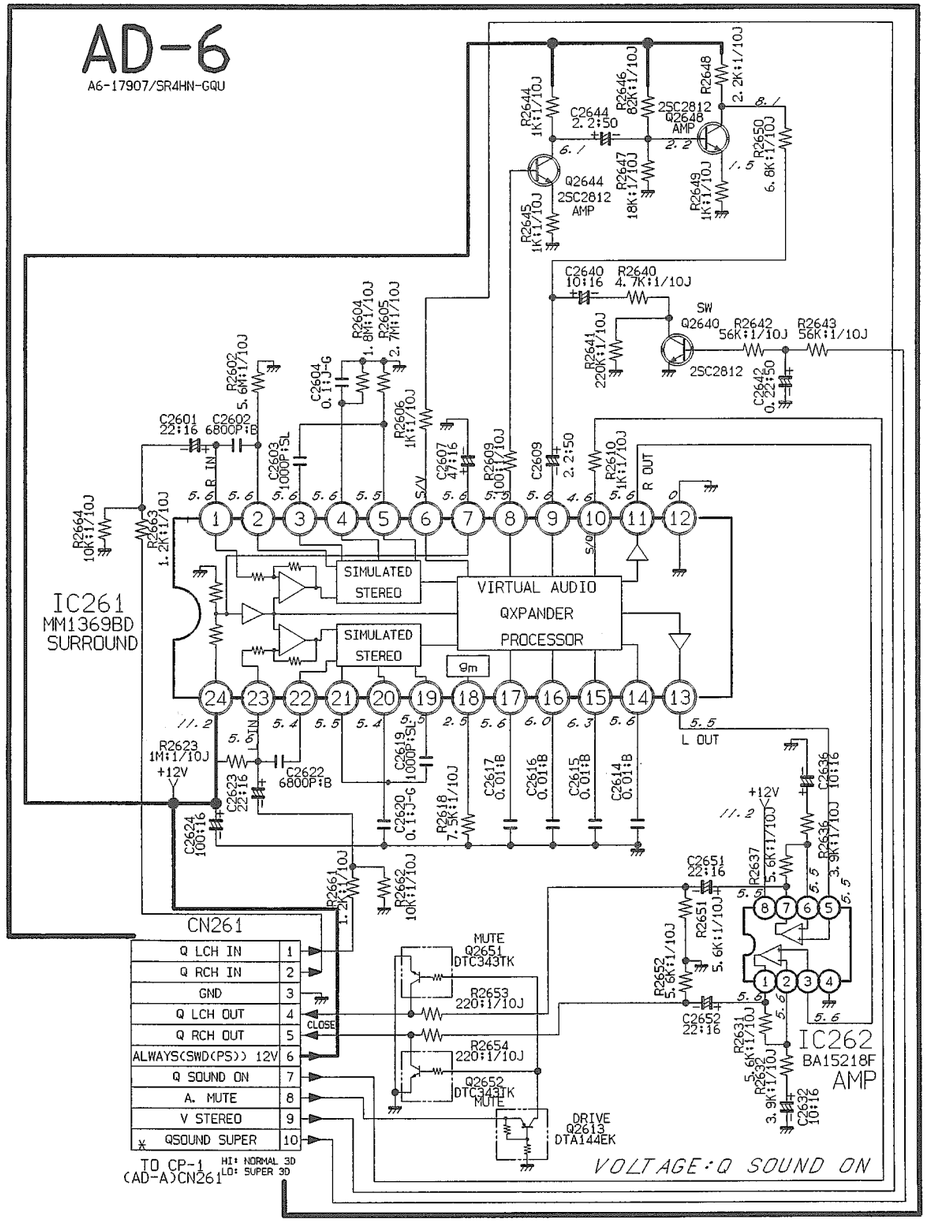
AD-5 BOARD VSC (DMSS) (VHR-H800EV)



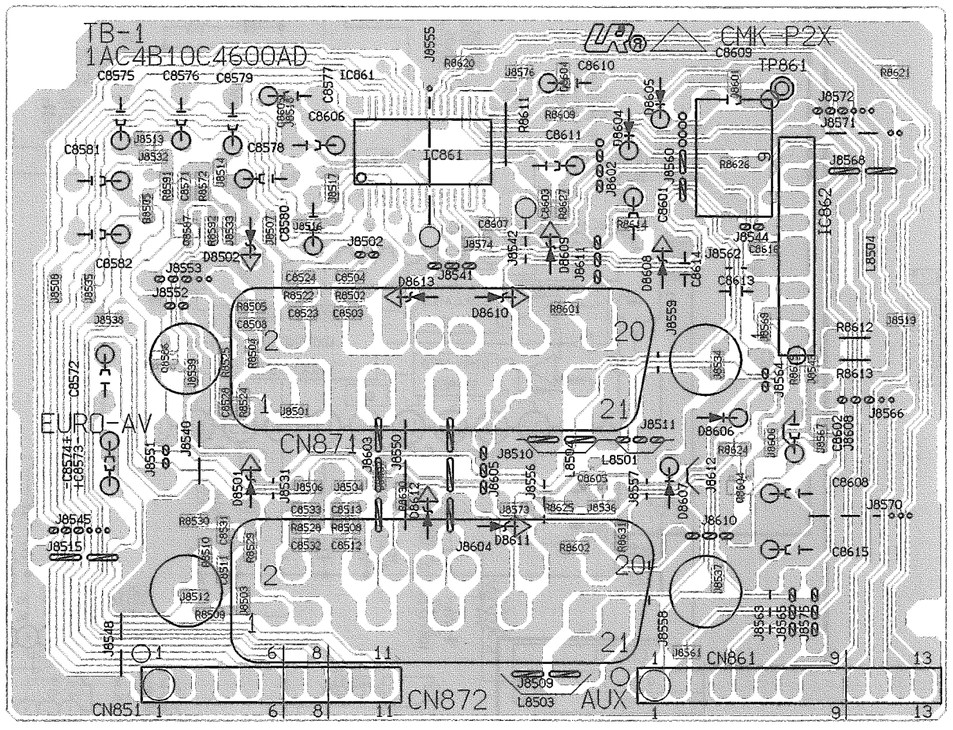
AD-5 BOARD VSC (DMSS) (VHR-H800EV)



AD-6 BOARD Q SOUND (SURROUND) (VHR-H800EV)



TB-1 P.W.B.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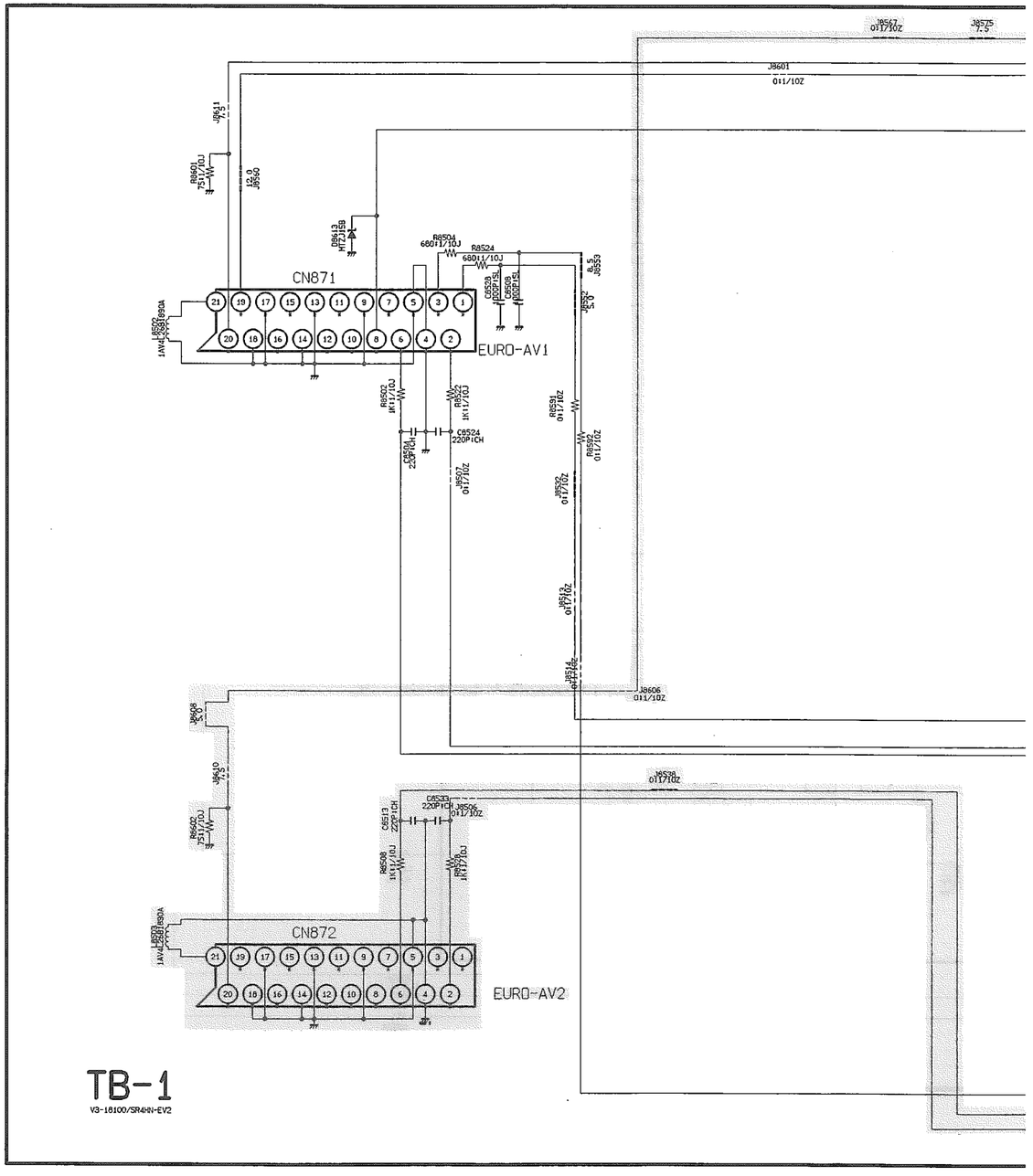
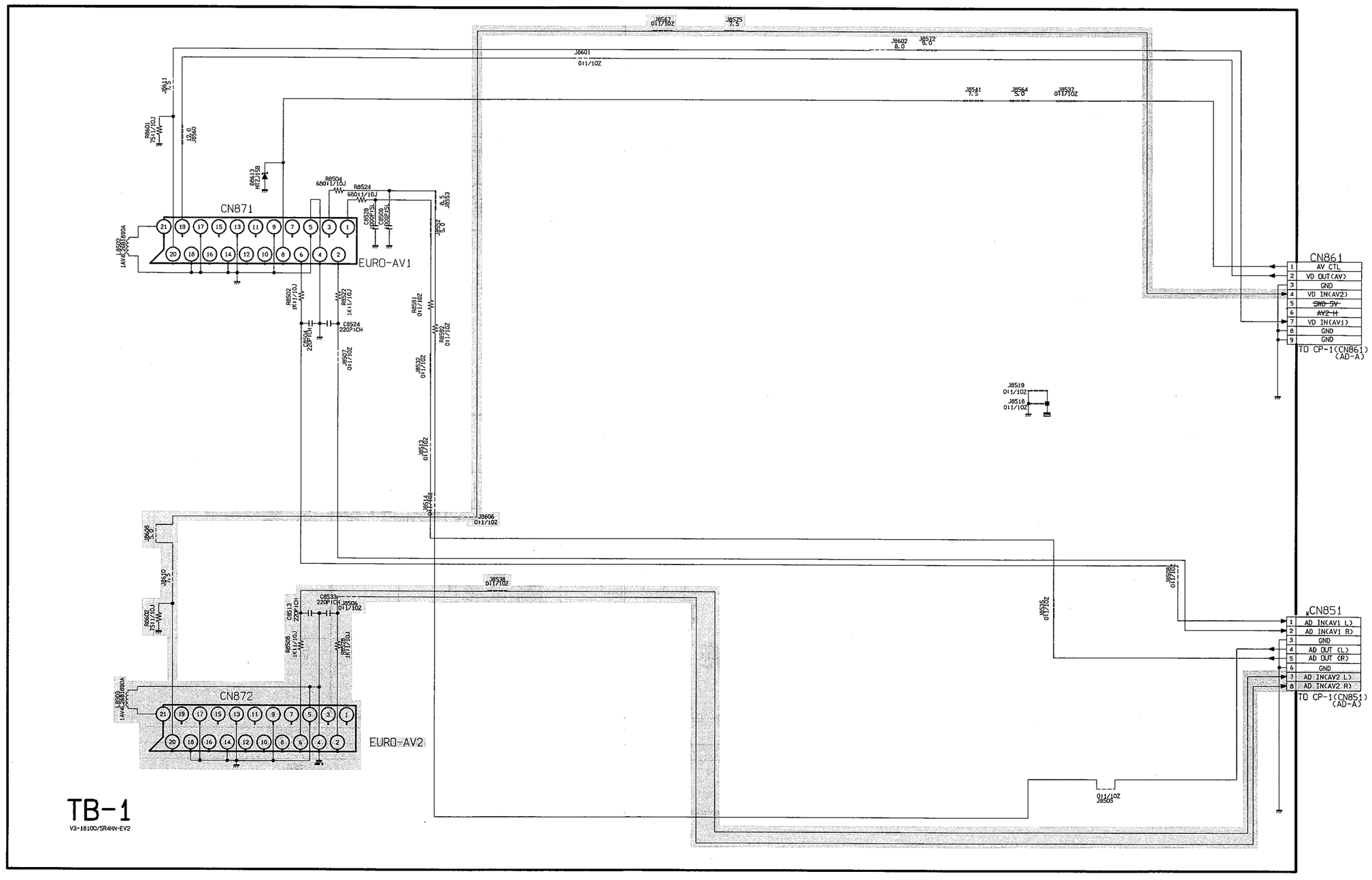

CN871
EURO-AV1
CN872
EURO-AV2
TB-1
V3-18100/SR4HN-EV2

TB-1 BOARD TERMINAL (EXCEPT VHR-H800EV)

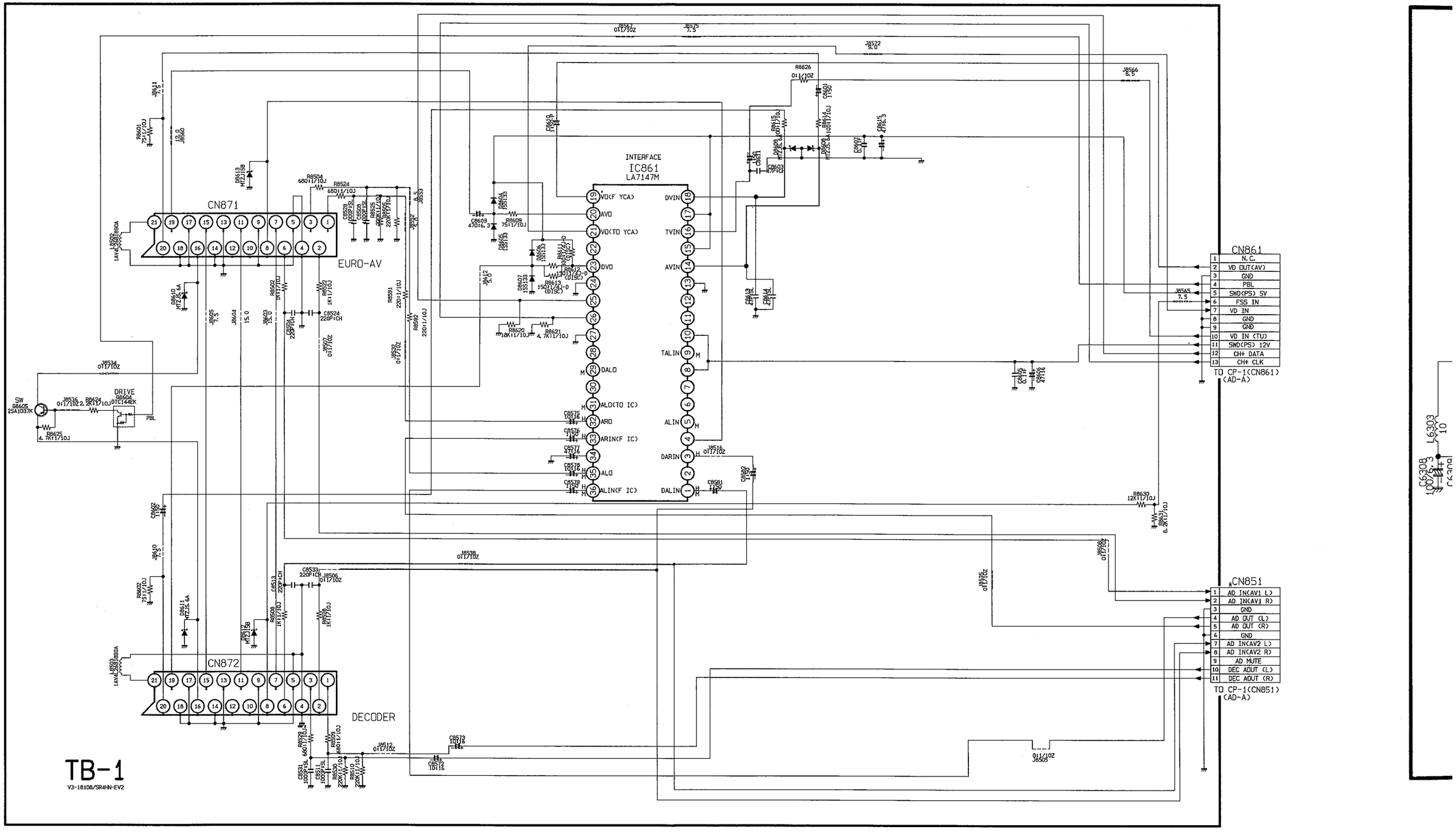


NOTES:

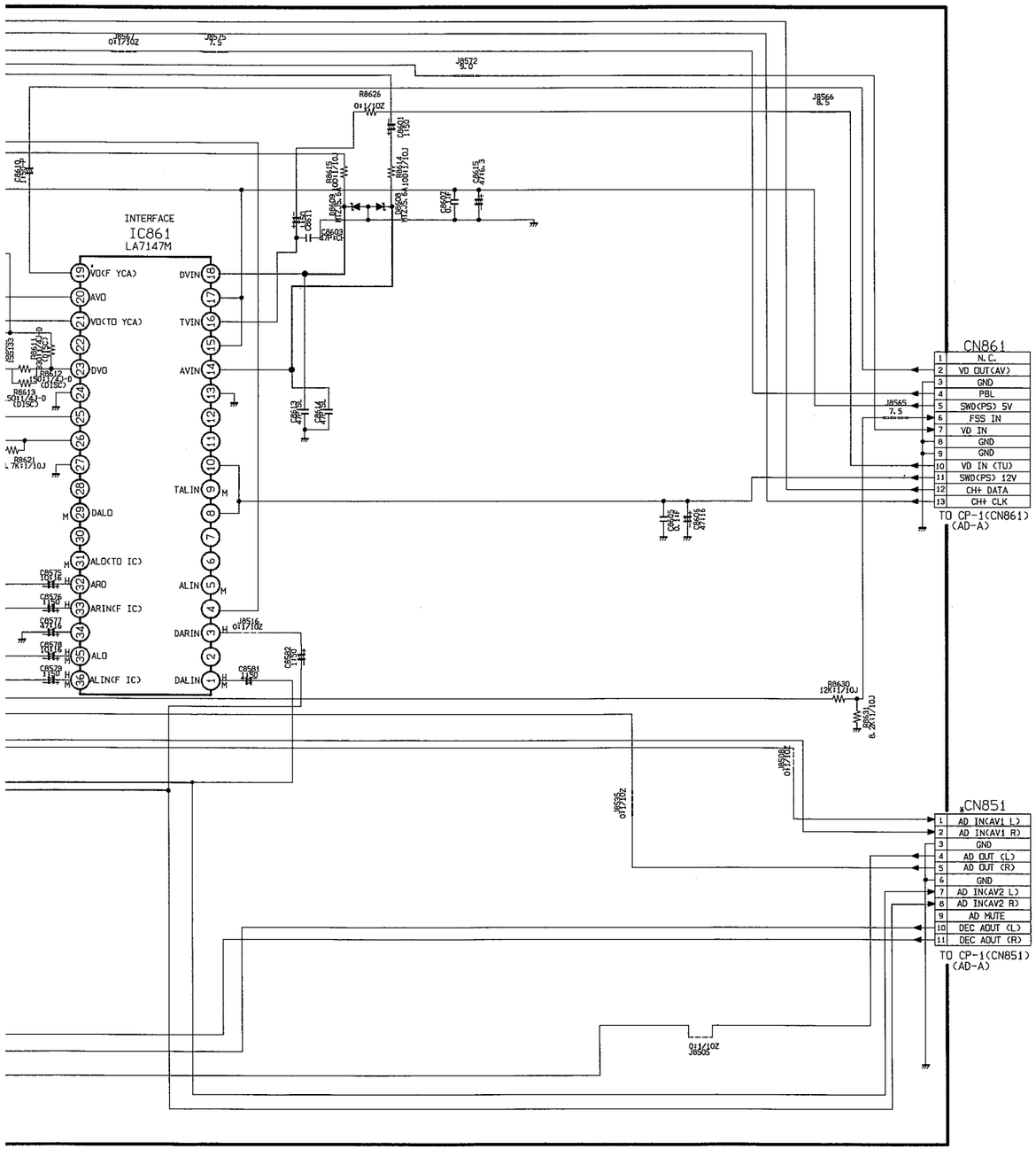
——— : Common parts for all models.

The parts marked ▩ are VHR-H780G ONLY.

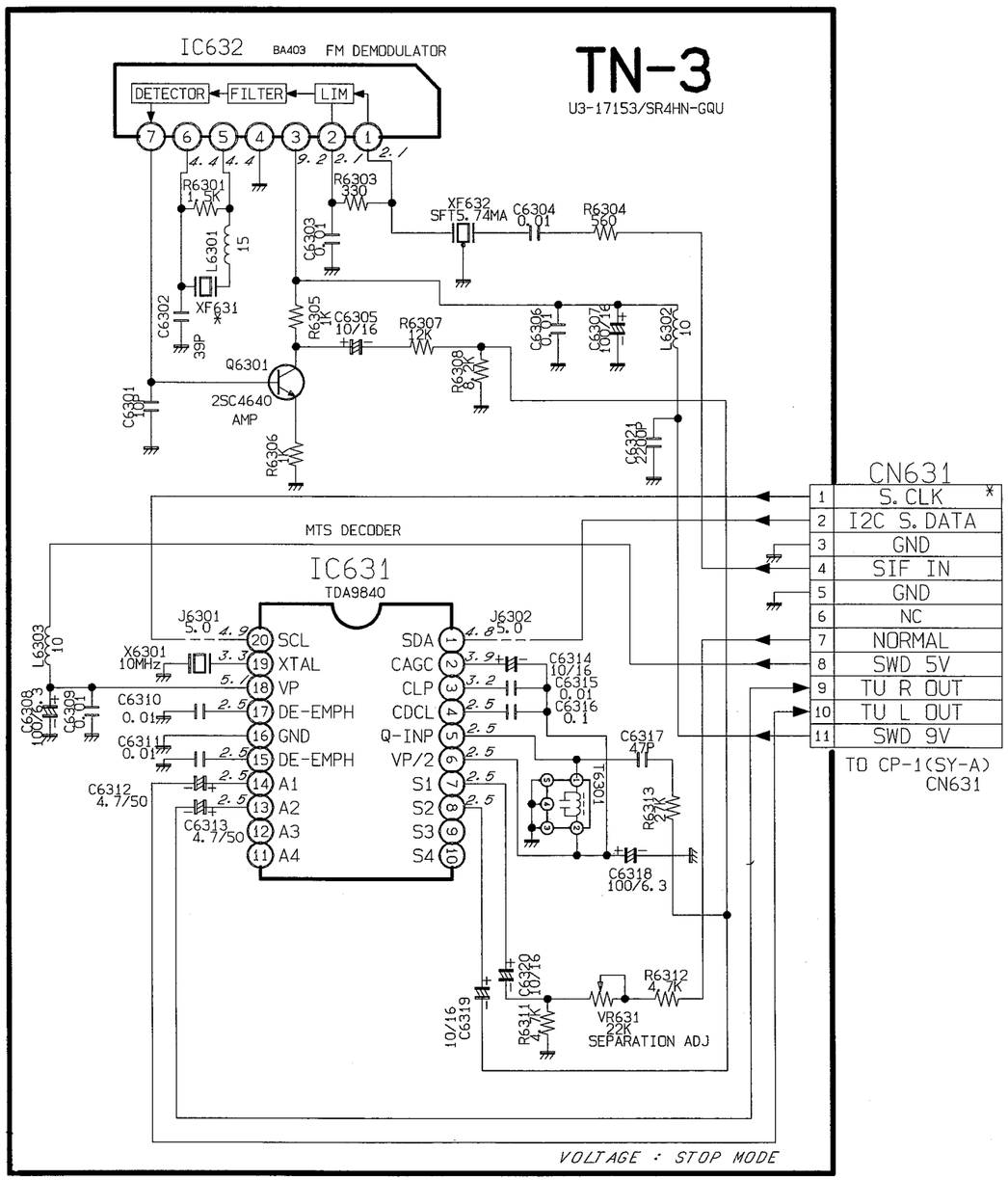
TB-1 BOARD DECODER INTERFACE (VHR-H800EV)



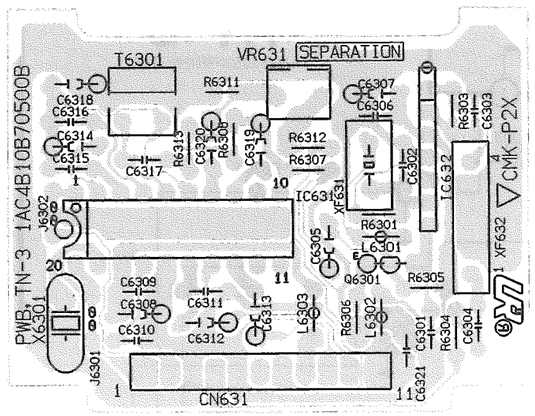
D DECODER INTERFACE (VHR-H800EV)



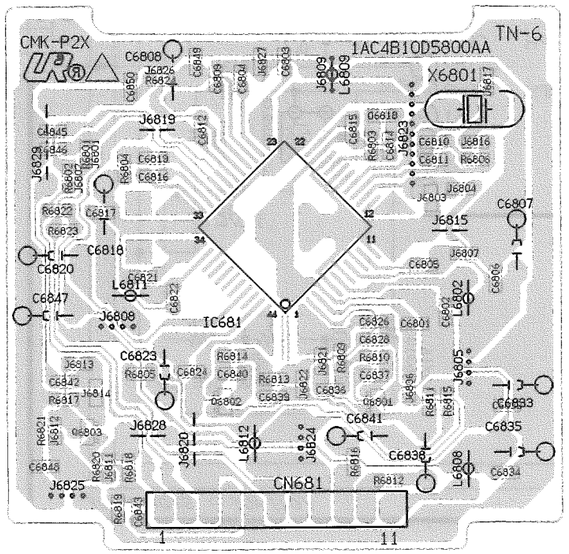
TN-3 BOARD TV SOUND DEMODULATOR (VHR-H760G, VHR-H780G)

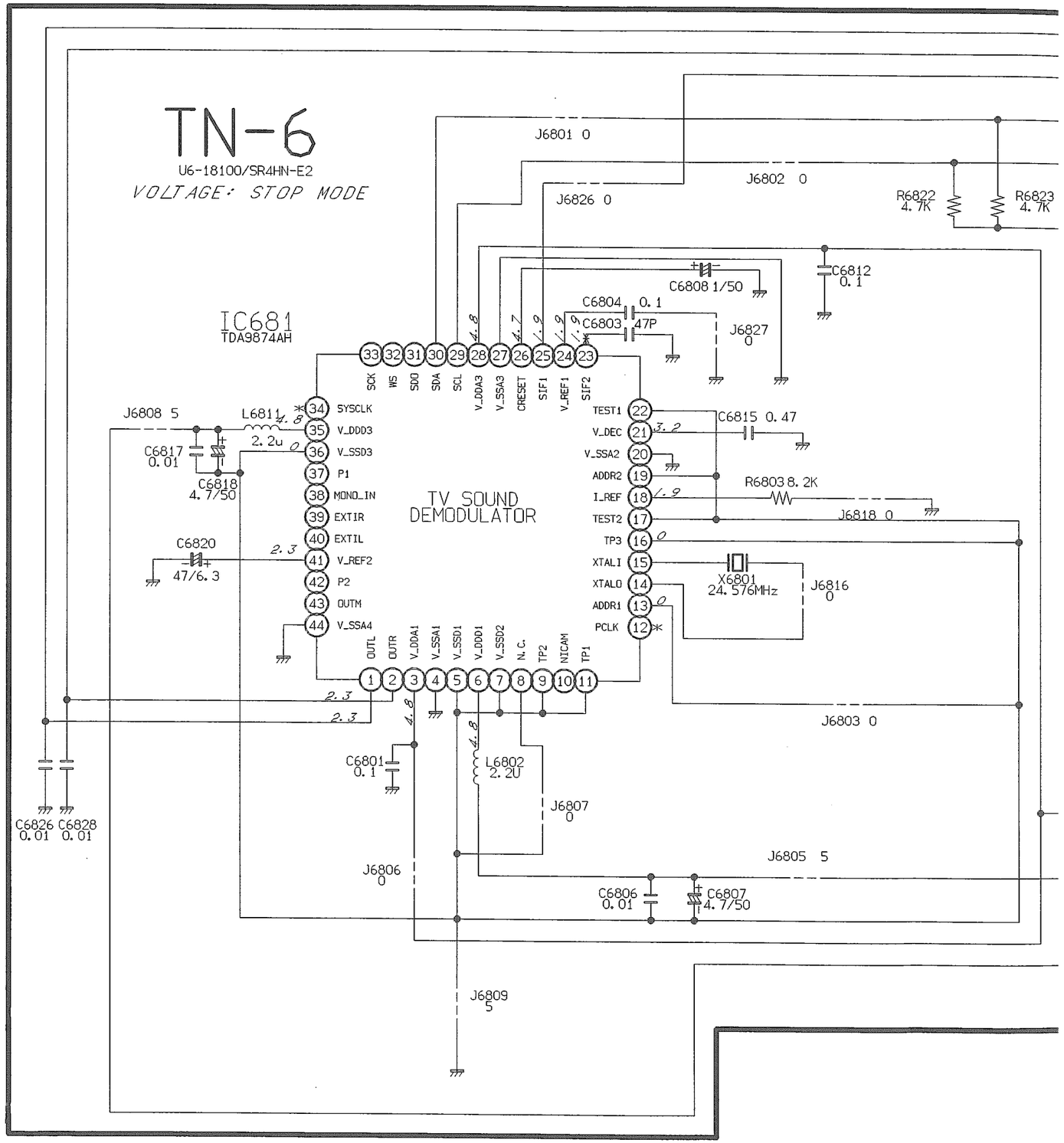


TN-3 P.W.B. (VHR-H760G, VHR-H780G)



TN-6 P.W.B. (VHR-H770EV, VHR-H800EV, VHR-H780IR)





TN-6

U6-18100/SR4HN-E2

VOLTAGE: STOP MODE

IC681
TDA9874AH

TV SOUND DEMODULATOR

J6801 0
J6802 0
J6826 0
J6821 0
J6822 0
R6822 4.7K
R6823 4.7K
C6842 0.01
C6812 0.1
C6808 1/50
C6804 0.1
C6803 47P
J6827 0
J6812 0
BUF J6814 0
Q6803 2SC2812
J6811 0
R6817 2.2K
R6818 10K
R6819 22K
C6843 0.01

SCK WS SDO SDA SCL V_DDA3 V_SSA3 CRESET SIF1 V_REF1 SIF2
33 32 31 30 29 28 27 26 25 24 23

4.8 4.7 1.9 1.9 1.9

J6808 5
L6811 4.8
2.2u 0
C6817 0.01
C6818 4.7/50
C6820 47/6.3
2.3

34 SYSCLK
35 V_DDD3
36 V_SSD3
37 P1
38 MONO_IN
39 EXTIR
40 EXTIL
41 V_REF2
42 P2
43 OUTM
44 V_SSA4

TEST1 22
V_DEC 21 3.2
V_SSA2 20
ADDR2 19
I_REF 18 1.9
TEST2 17
TP3 16 0
XTALI 15
XTALO 14
ADDR1 13 0
PCLK 12

C6815 0.47
R6803 8.2K
J6818 0
X6801 24.576MHz
J6816 0

OUTL OUTR V_DDA1 V_SSA1 V_SSD1 V_DDD1 V_SSD2 N.C. TP2 NICAM TP1
1 2 3 4 5 6 7 8 9 10 11

2.3 2.3 4.8 4.8

J6803 0
C6801 0.1
L6802 2.2U
J6807 0
J6806 0
J6805 5
C6806 0.01
C6807 4.7/50
C6826 0.01
C6828 0.01
J6809 5

C6838 2.2/50
C6841 2.2/50
R6812 1K
R6816 1K
L6812 2.2U
C6847 47/6.3
J6824 5
C6832 0.01
C6833 47/6.3
L6808 2.2U
C6834 0.01
C6835 100/16

CN681

1	I2C SCL
2	I2C SDA
3	GND
4	SIF IN
5	GND
6	~~MONO OUT~~
7	~~NORMAL~~
8	SWD 5V
9	TU R OUT
10	TU L OUT
11	SWD 9V

TO CP-1 (SY-A)
CN681

8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24